


Service Manual

Dolby NR-Equipped
Stereo Cassette Deck

Cassette Deck
RS-BX626

Simplified

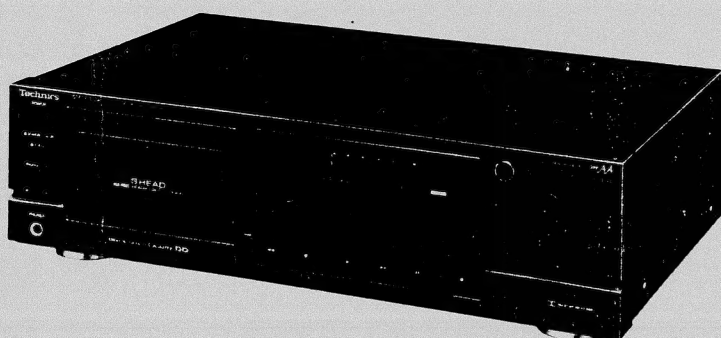
 **DOLBY B-C NR HX PRO**

Colour

(K)... Black Type

Area

Suffix for Model No.	Area	Colour
(EB)	Great Britain.	(K)
(EG)	Germany and Italy./ Europe.	



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- Please file and use this Simplified manual together with the service manual for model No. RS-BX606, Order No. AD9106169C5.
- This service manual indicates the main differences between Original RS-BX606.

■ CHANGE IN REPLACEMENT PARTS LIST (on pages 33, 35, 36.)

- Notes:**
- Mentioned in this parts list is only those different from Model No. RS-BX606 (EG). All other parts are the same as for RS-BX606 (EG).
 - Important safety notice:
Components identified by \triangle mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

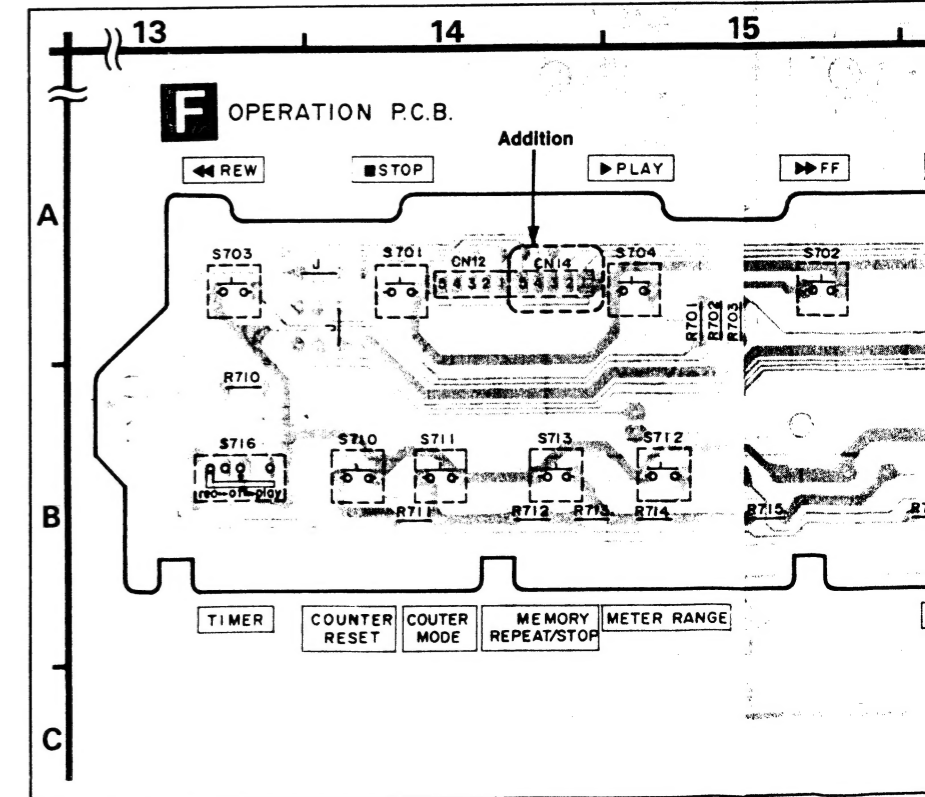
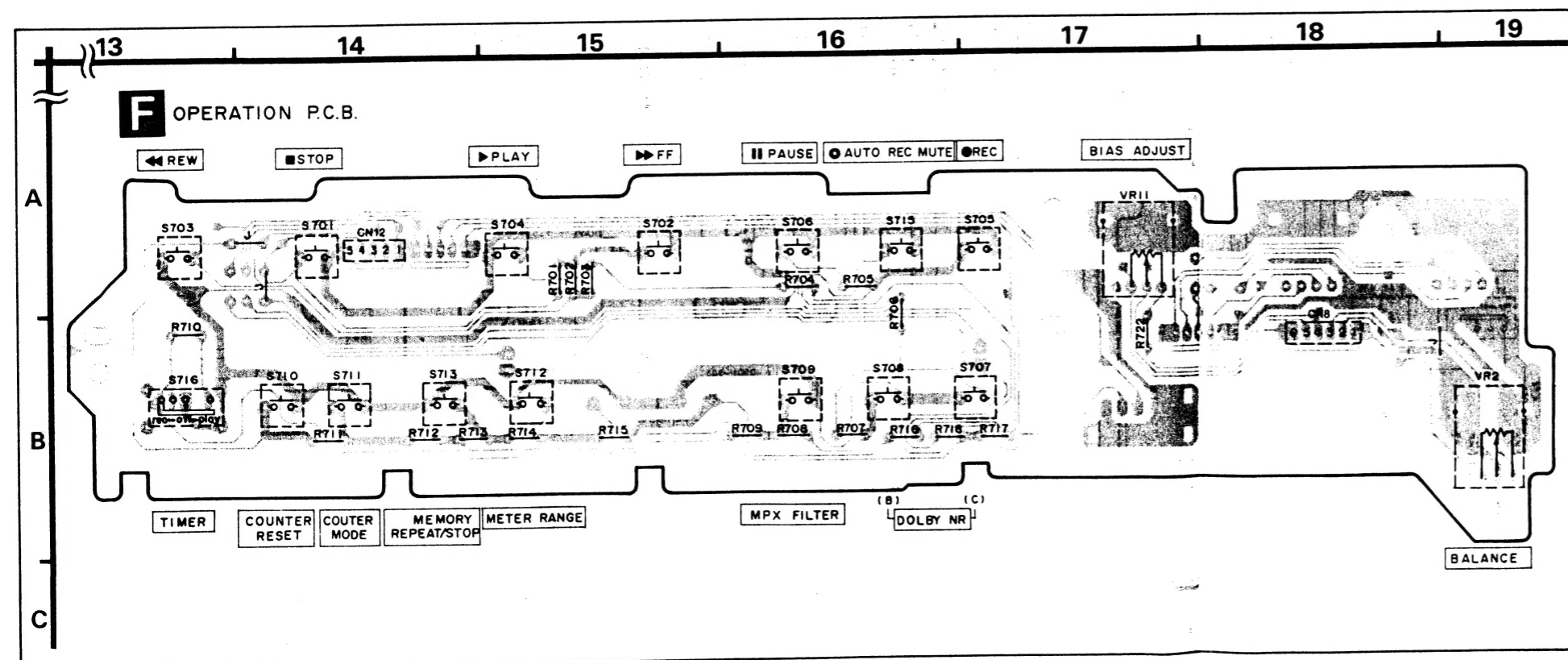
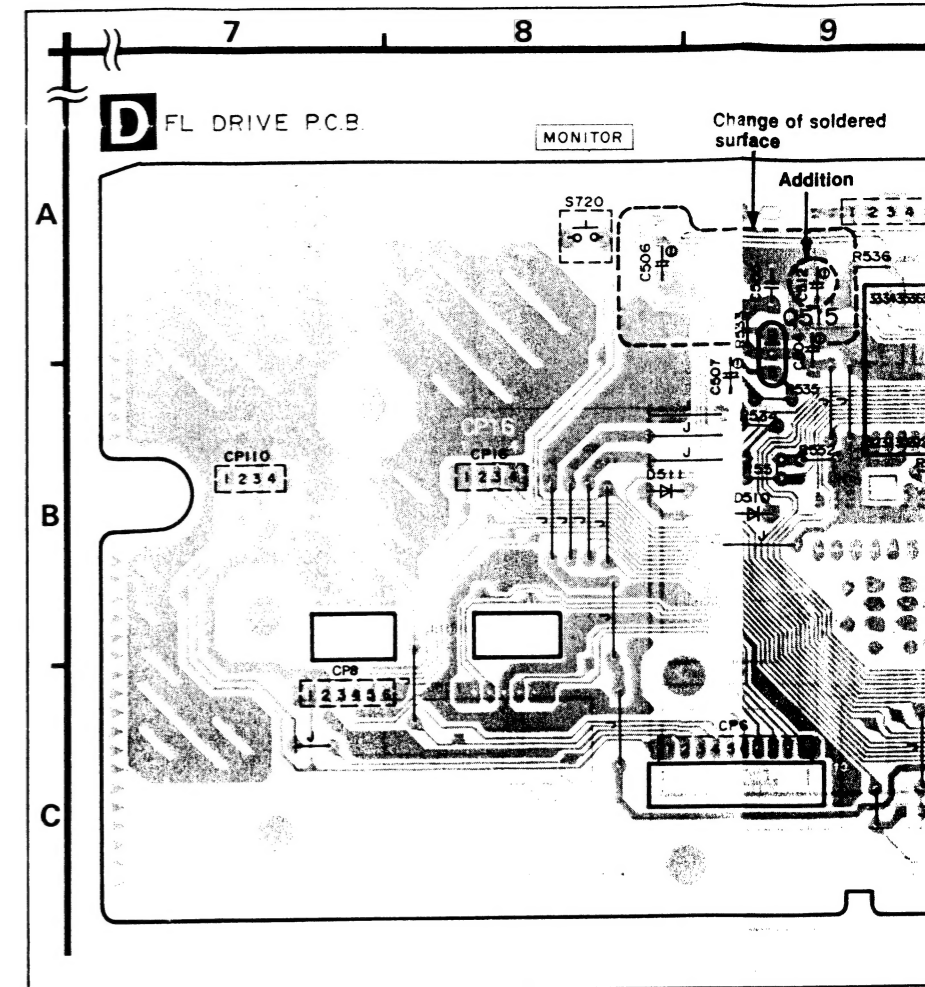
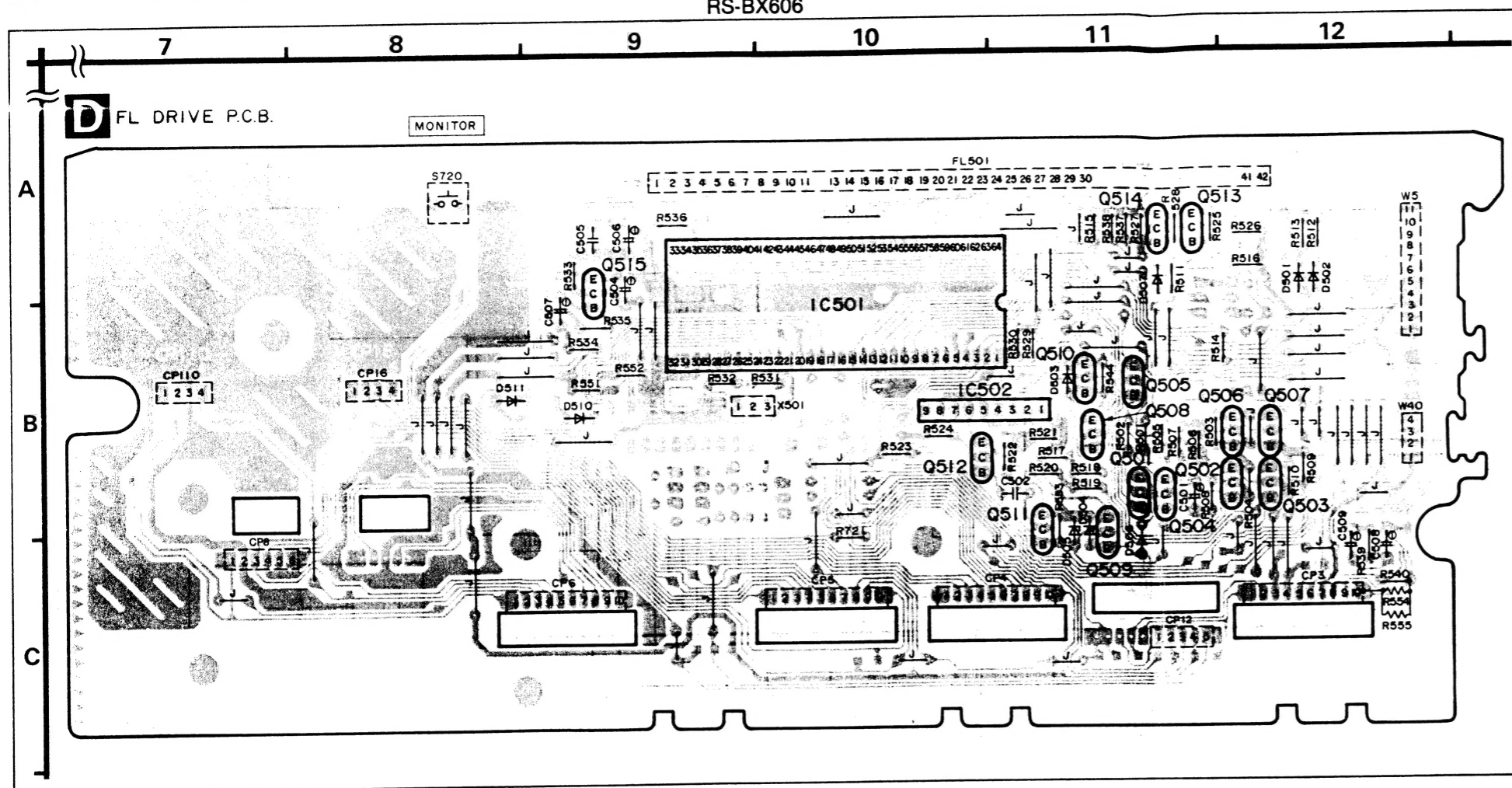
Ref. No.	Change of Part No.		Part Name & Description	Remarks
	RS-BX606 (EG)	➡RS-BX626 (EB, EG)		
SENSOR(S)				
Z701	————	RCDHC-278	REMOTE SENSOR	Addition
SWITCH(ES)				
S971	RSH1A89ZB-U	RSH1A89ZC-U	MODE	
S972	RSH1A90YB-U	RSH1A90YC-U	HALF	
S973	RSH1A90YB-U	RSH1A90YC-U	ATS (CrO ₂)	
S975	RSH1A90YB-U	RSH1A90YC-U	REC INHIBIT	
S976	RSH1A90YB-U	RSH1A90YC-U	ATS (Metal)	

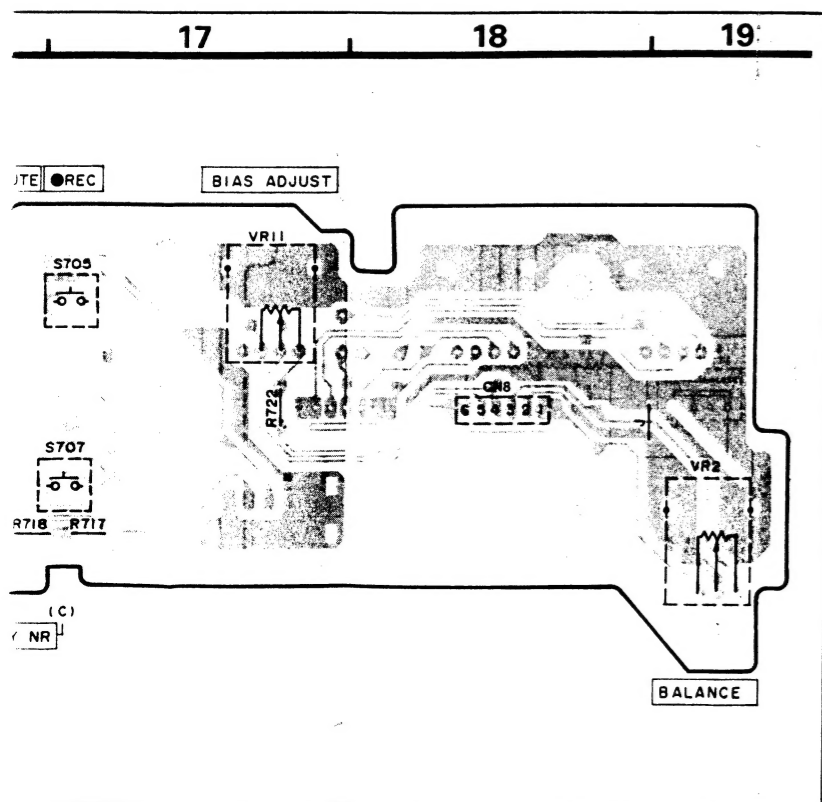
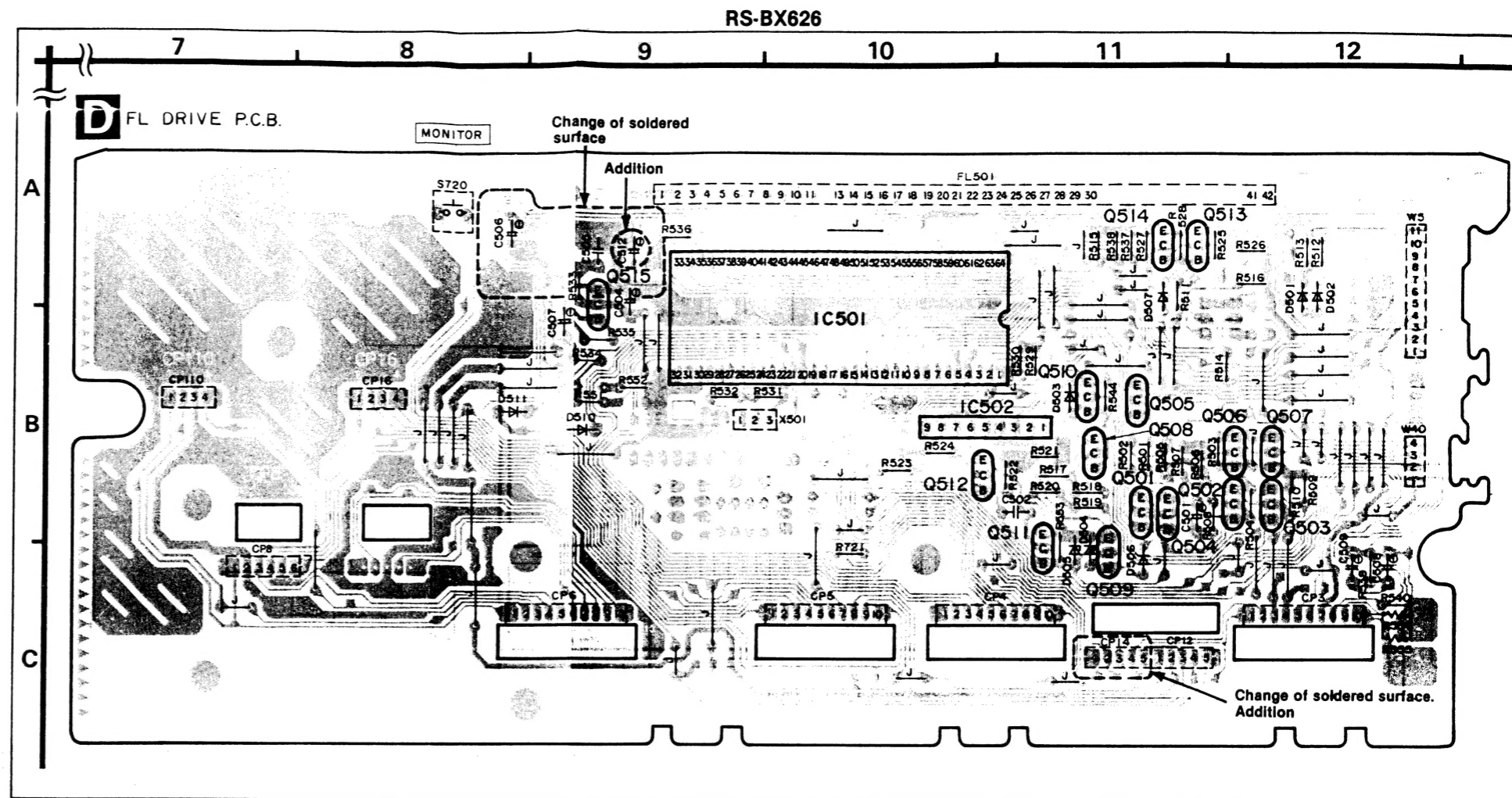
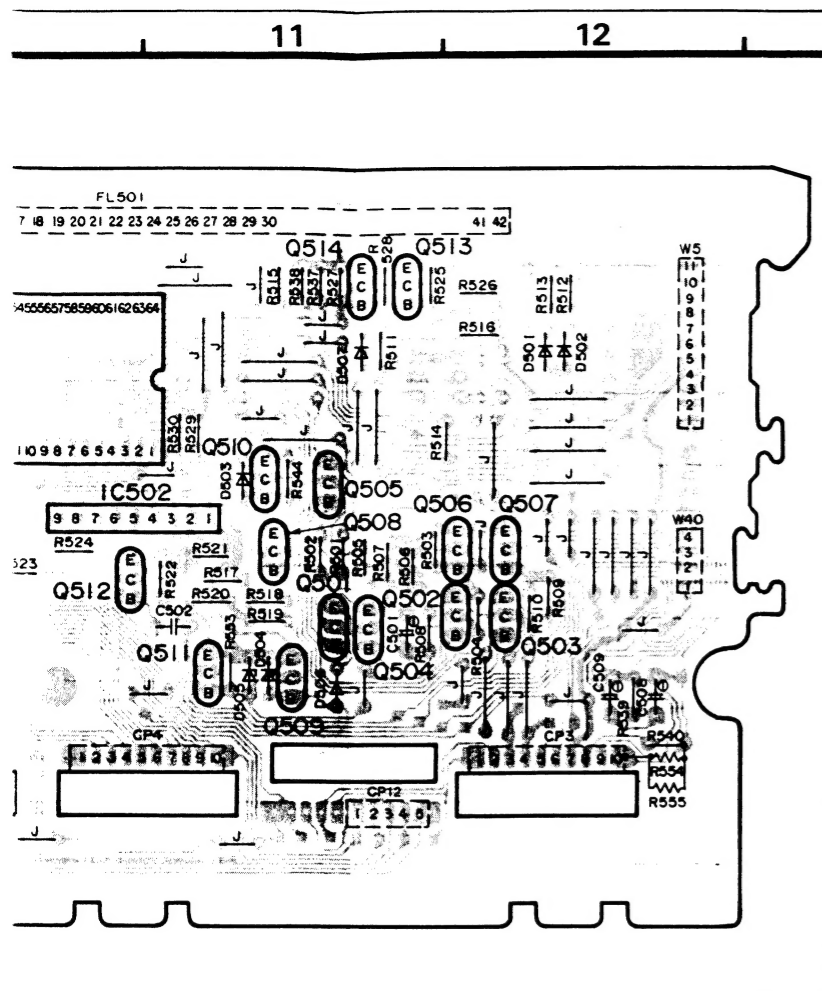
Technics

Ref. No.	Change of Part No.		Part Name & Description	Remarks
	RS-BX606 (EG)	RS-BX622 (EB, EG)		
CONNECTOR(S)				
CN2PA, 2PB	RJS1A1703	RJS1A8603	CONNECTOR (3P)	
CN14		SJS50581BB	SOCKET (5P)	Addition
CN60A	RJS1A1704	RJS1A8604	CONNECTOR (4P)	
CN60B	RJS1A1705	RJS1A8605	CONNECTOR (5P)	
CP1	RJP3G18ZA	SJTD313	CONNECTOR (3P)	
CP3-6	RJT003K010M1	RJT003K010-1	CONNECTOR (10P)	
CP14		SJT30548BB1	CONNECTOR (5P)	Addition
CP16	RJT057W004	RJT057W004-1	CONNECTOR (4P)	
CP110	RJT057W004	RJT057W004-1	CONNECTOR (4P)	
FLAT CABLE(S)				
W5	RWJ0211220KQ	RWJ5711220KQ	FLAT CABLE (11P)	
W40	RWJ0204180KQ	RWJ5704180KQ	FLAT CABLE (4P)	
CAPACITORS				
C3, 4	ECEA0JK101	ECEA1AU101	E. CAPACITOR (10V, 100 μ F)	
C327, 328	ECEA1EK100	ECEA1VKA100B	E. CAPACITOR (35V, 10 μ F)	
C512		ECEA0JKA470B	E. CAPACITOR (6.3V, 47 μ F)	Addition
CABINET AND CHASSIS				
5	XTBS3+8JFZ1		SCREW	Change of Pcs
7	RGR0128A-B1	RGR0128C-A	REAR PANEL	(EG)
		RGR0128C-B	REAR PANEL	(EB)
14	RFKGSBX606EB	RFKGSBX626EB	FRONT PANEL ASS'Y	
15	RMA0517		BRACKET, BOTTOM CHASSIS	Deletion
17	RMC0139	RMC0139-1	SHIELD PLATE, P. TRANSFORMER	
30	XTB3+10JFZ		SCREW	Change of Pcs
34		XTB3+12JFZ	SCREW	Addition
35		RMA0582	ANGLE, P. SUPPLY	Addition
PACKING MATERIAL				
P1	RPG0990	RPG1232	PACKING CASE	
P3	SPSD152	RPQ0164	ACCESSORIES PAD	
P4	SPP756	XZB52X60A01Z	PROTECTION COVER (UNIT)	
P5		SPB1061	PROTECTION BAG (F.B.)	Addition
P6		XZB24X34C04	PROTECTION BAG (F.B., ACC.)	Addition
ACCESSORIES				
A1	RFKSSBX606EG	RFKSSBX626EG	INSTRUCTION MANUAL ASS'Y	(EG)
		RQT1516-B	INSTRUCTION MANUAL	(EB)
A4	SFDAC05E03	RJA0019-1K	AC POWER SUPPLY CORD	(EG) Δ
		SJA19302N38	AC POWER SUPPLY CORD	(EB) Δ
A5	SJP2249-3	SJP2276	STEREO CONNECTION CABLE	

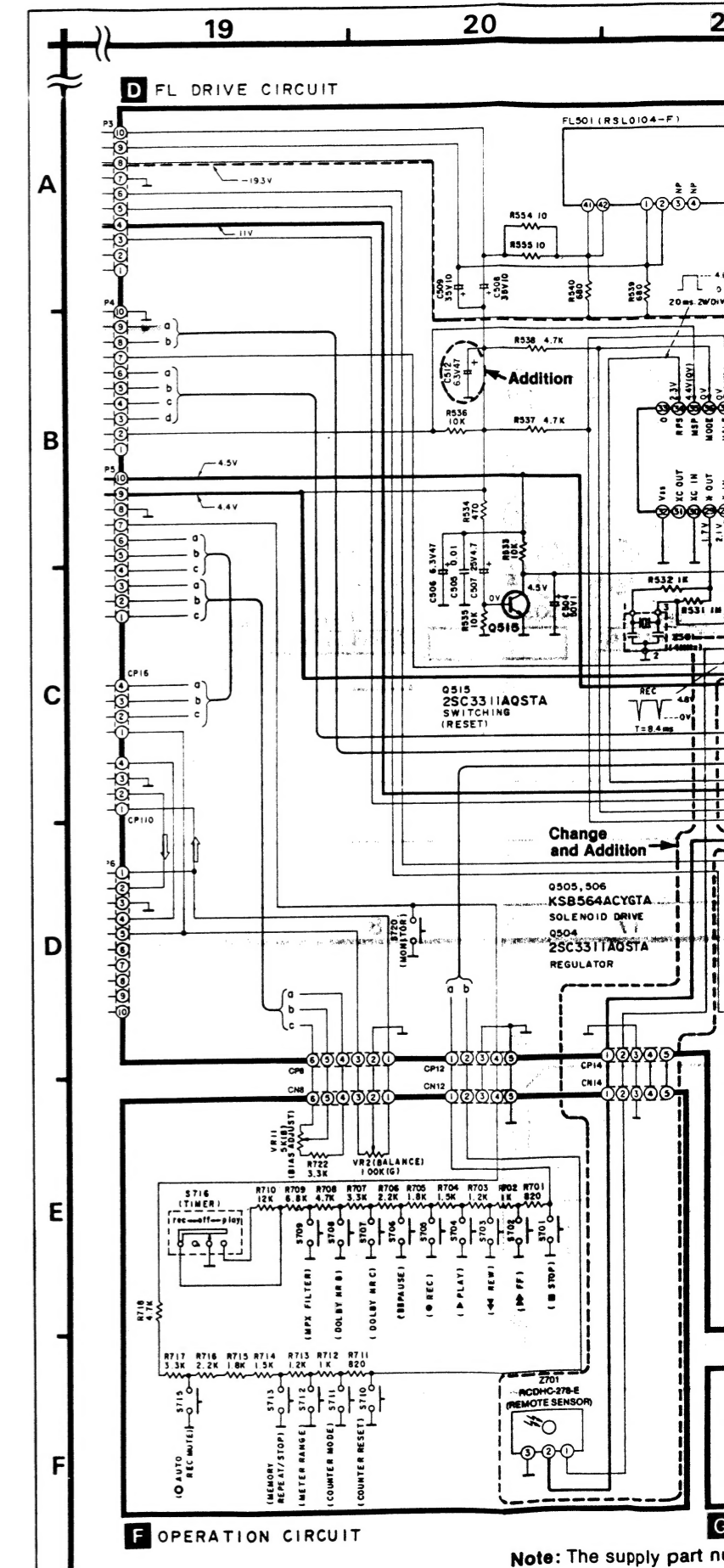
■ PRINTED CIRCUIT BOARDS (on pages 16~18.)

RS-BX606

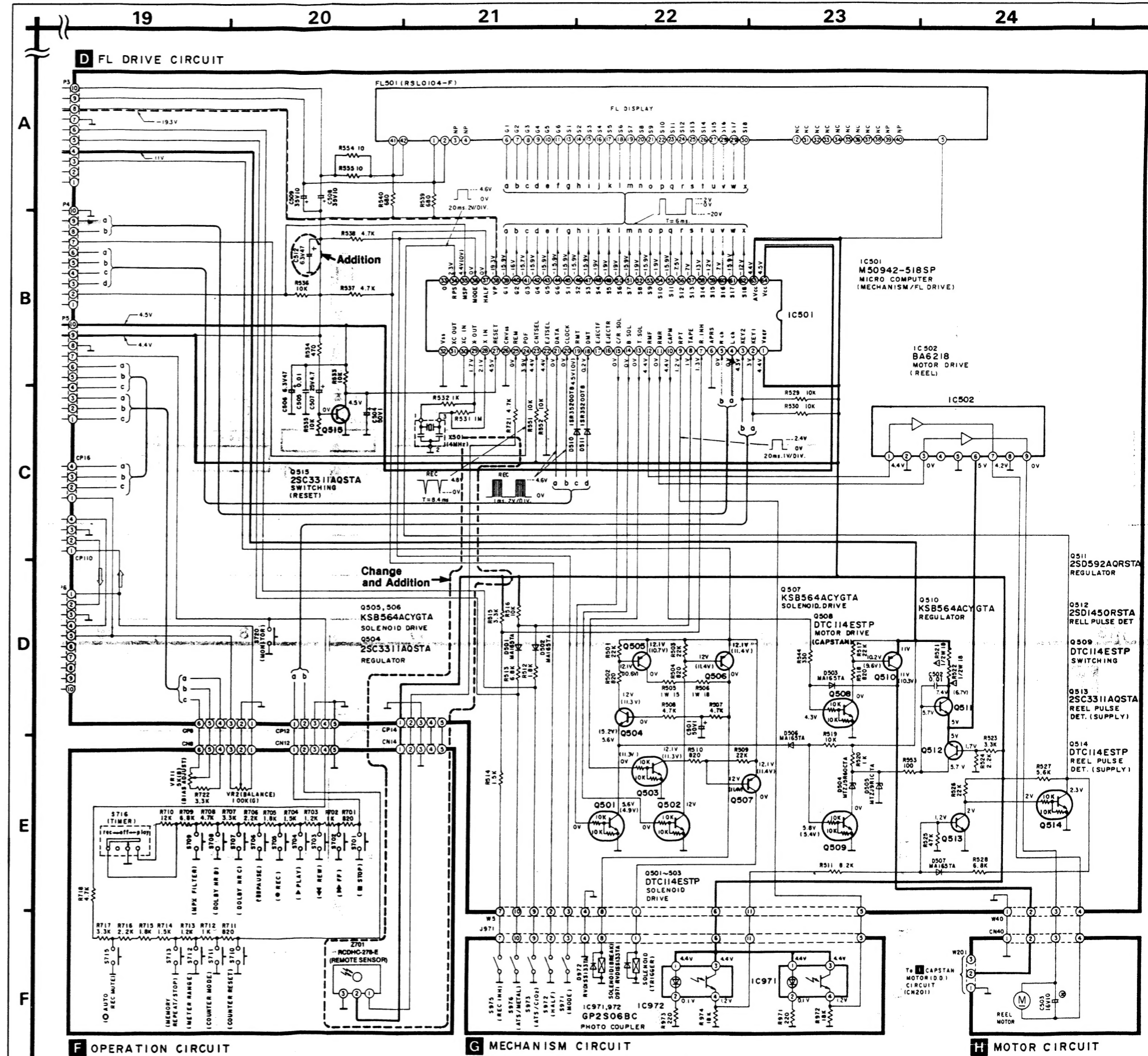
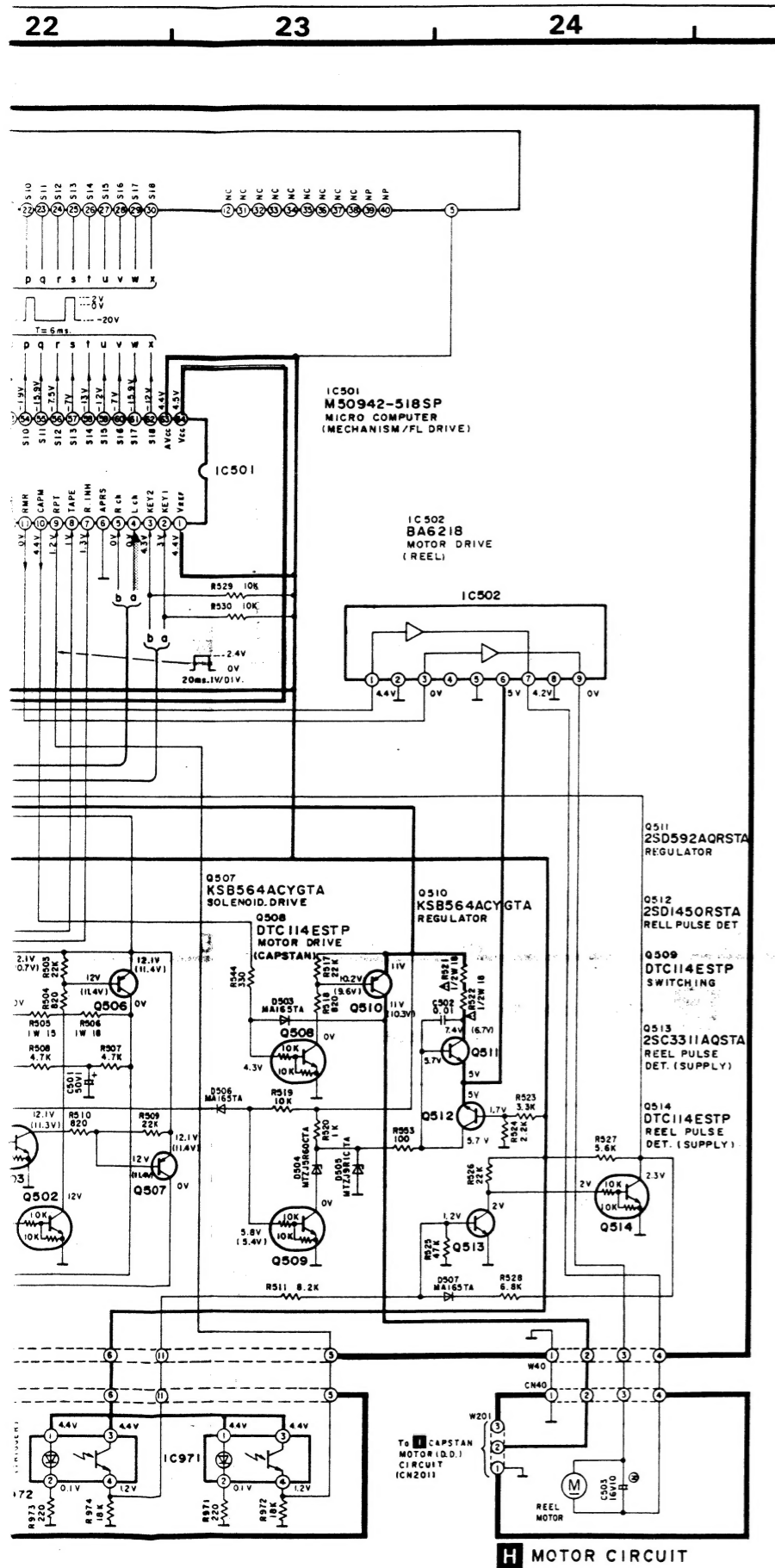




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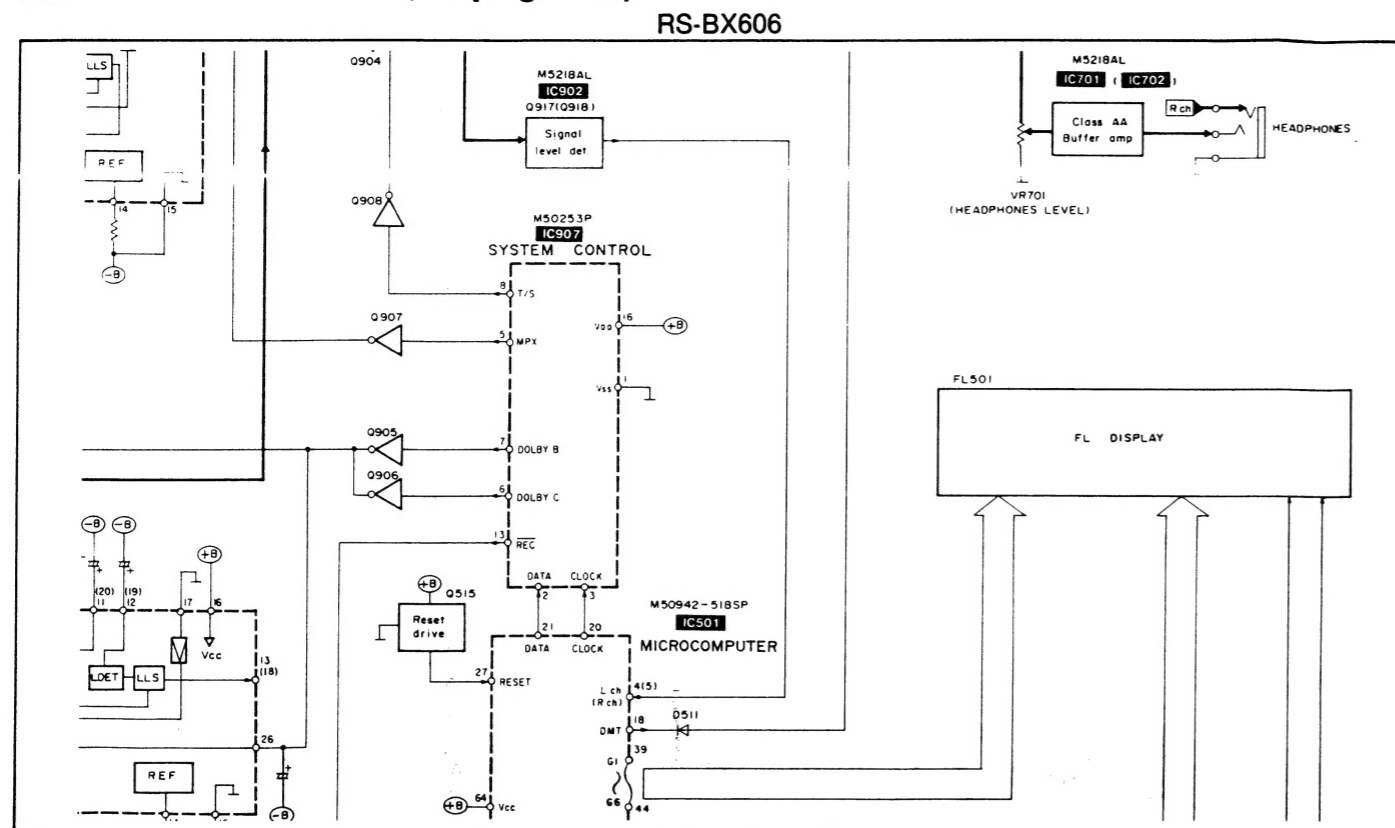


Note: The supply part n

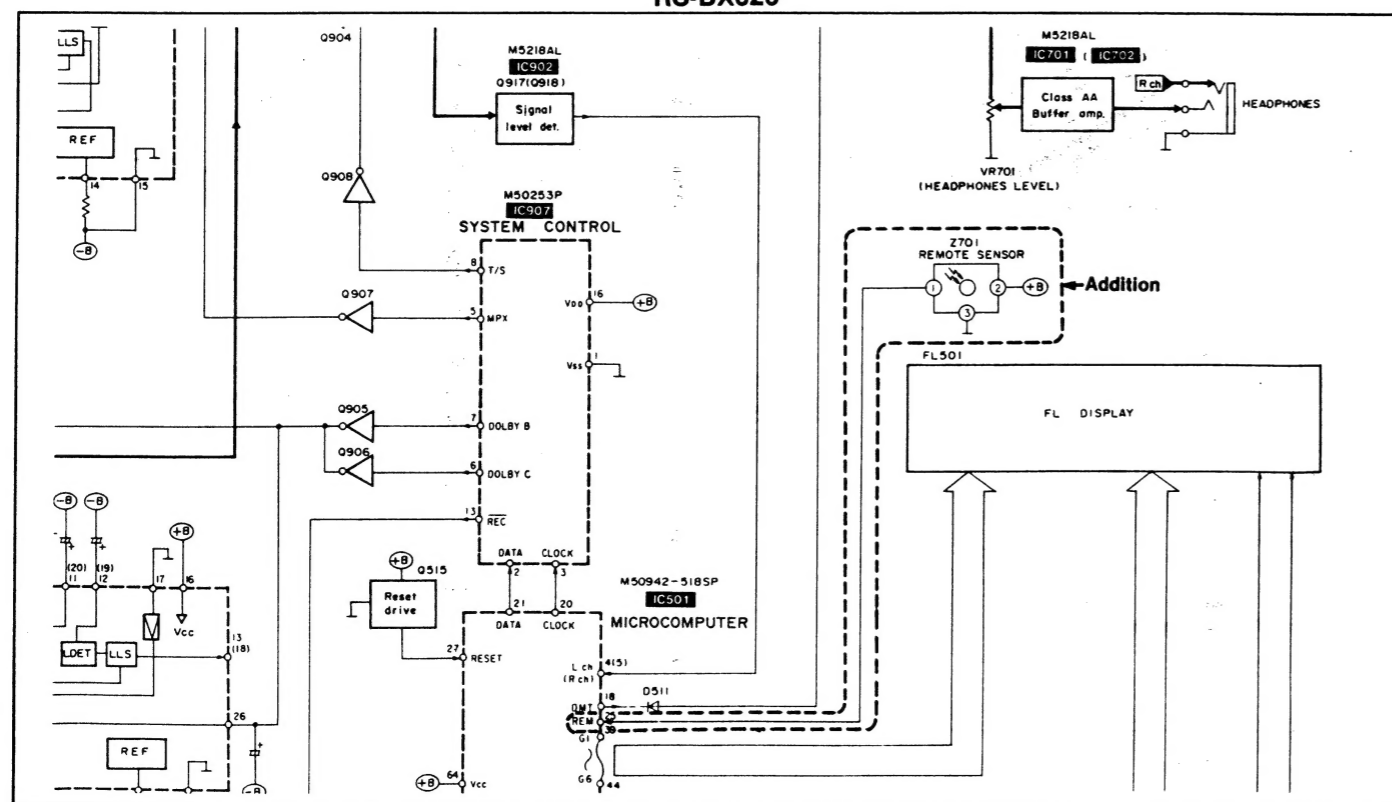


Note: The supply part number of the Ref. No. Z701 is described alone in the replacement parts list.

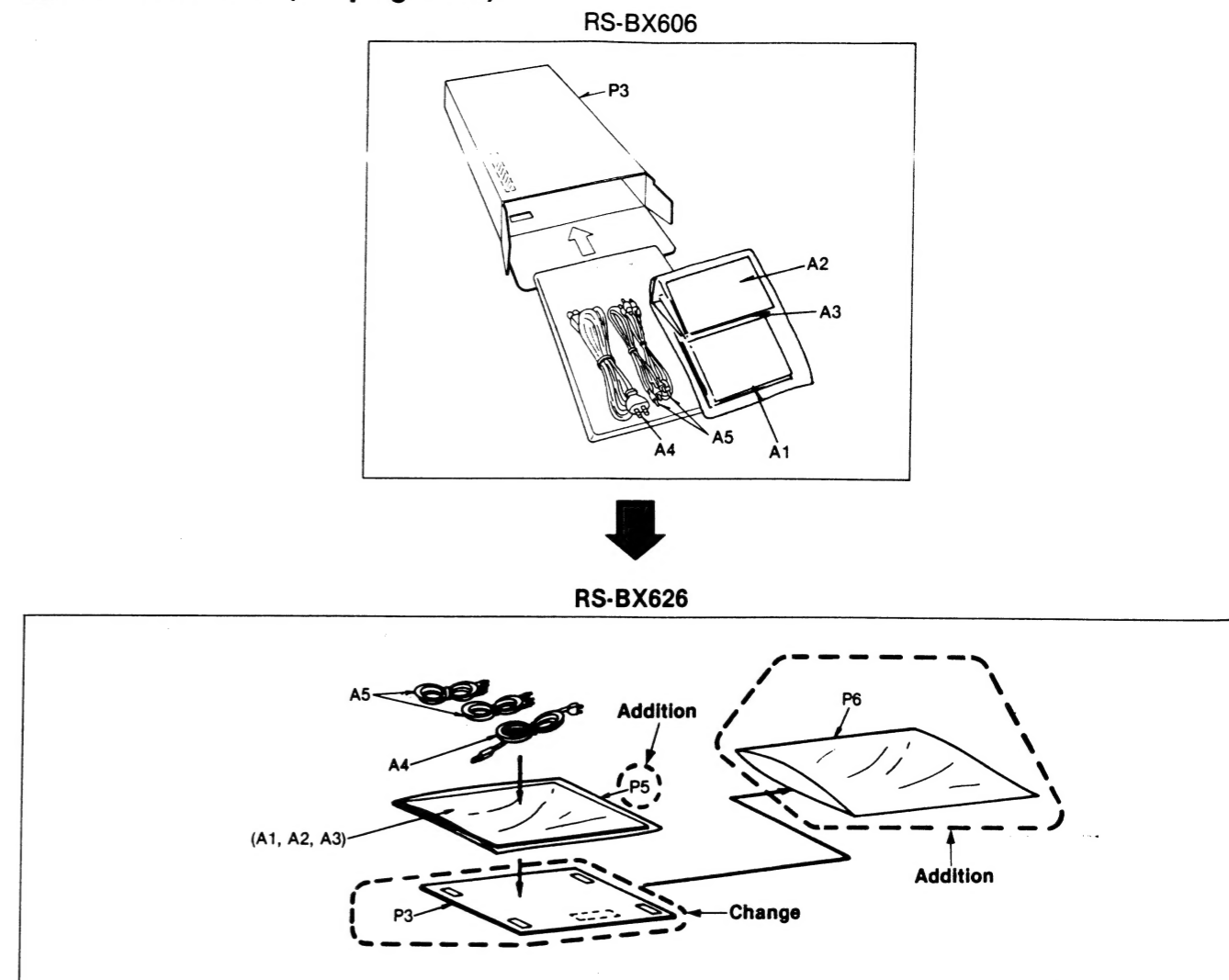
■ BLOCK DIAGRAM (on page 28.)



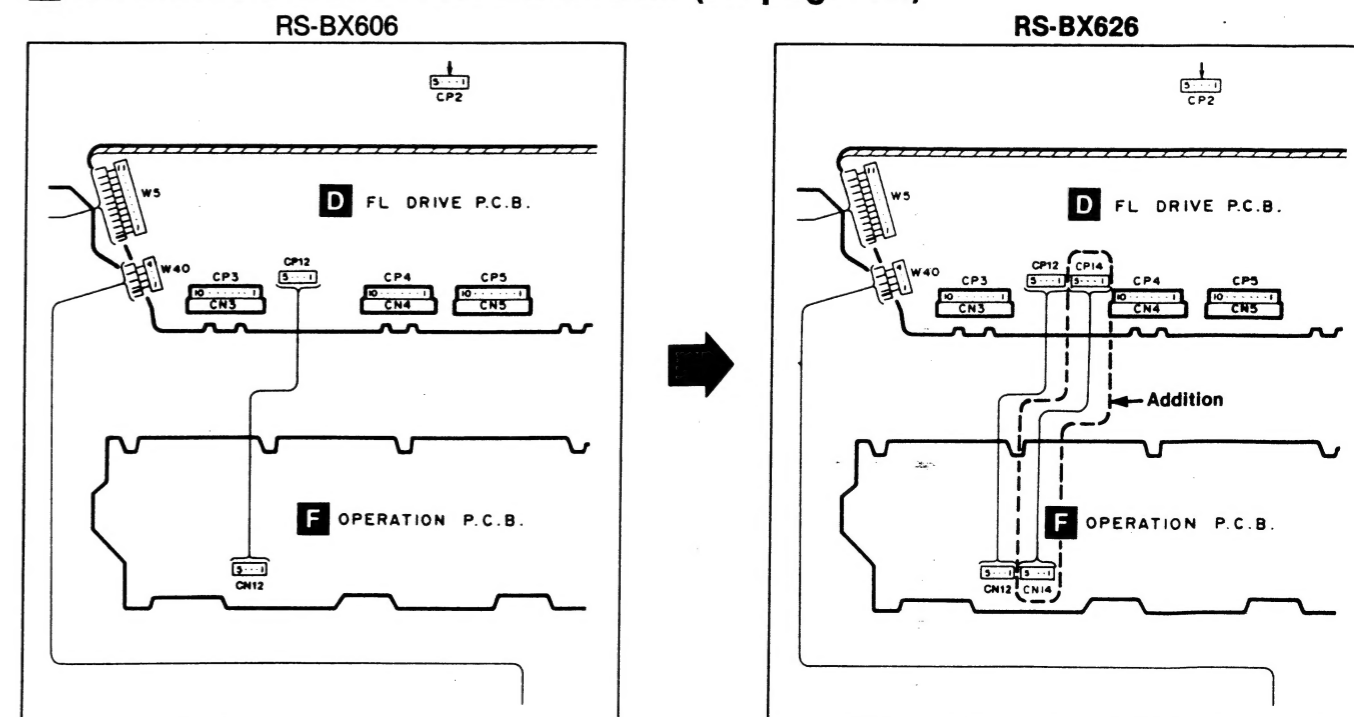
RS-BX626



■ PACKAGING (on page 30.)

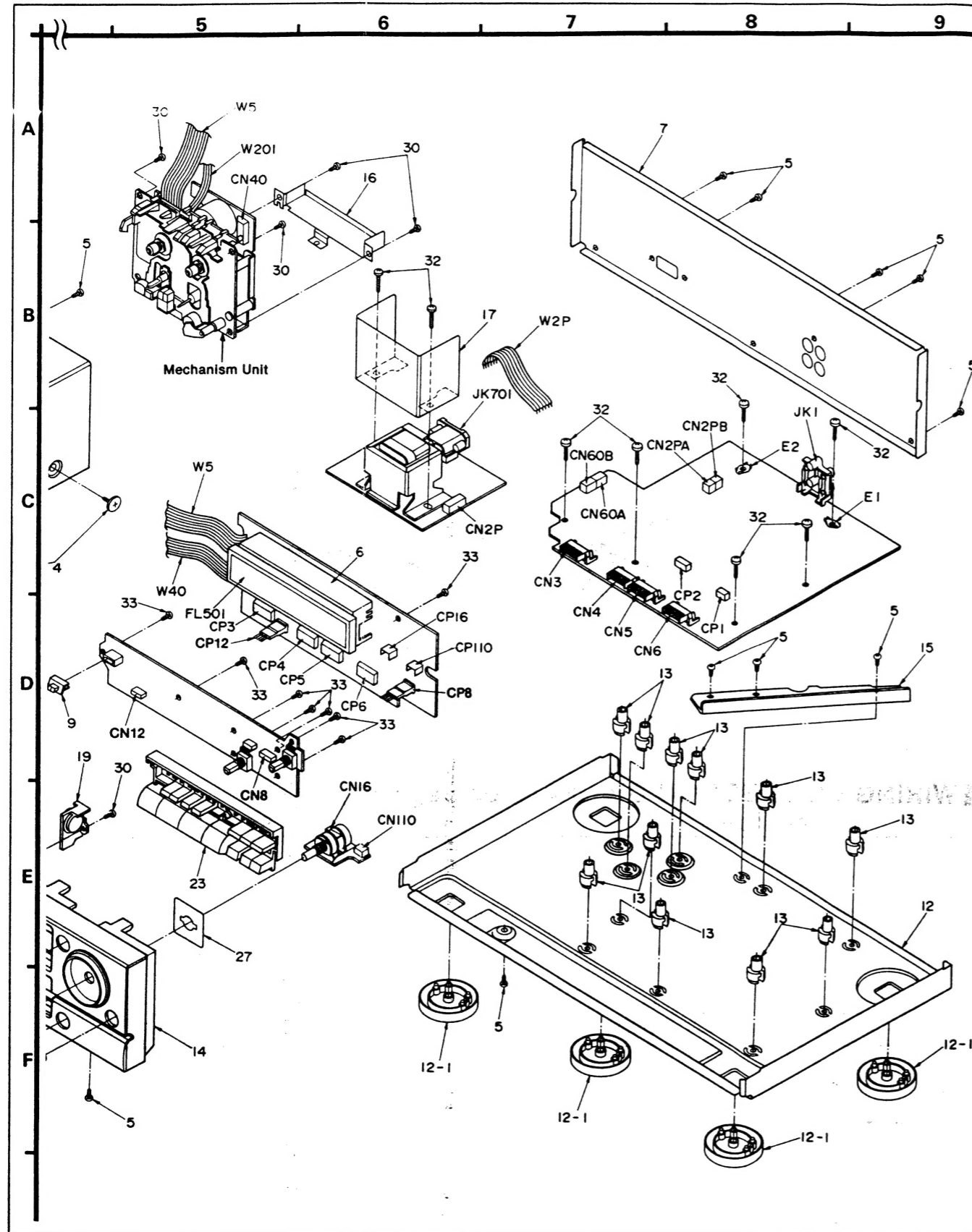


■ WIRING CONNECTION DIAGRAM (on page 31.)

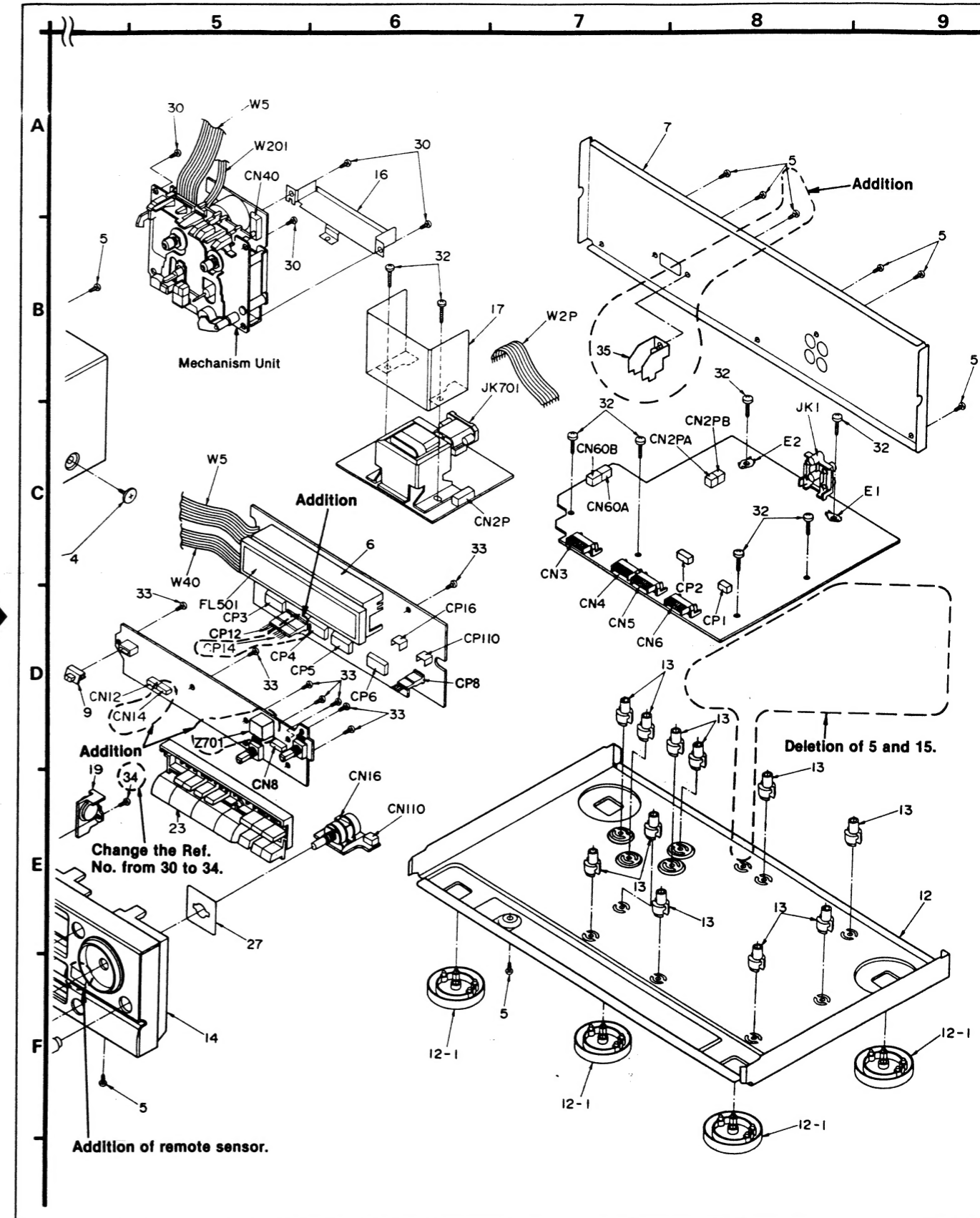


EXPLODED VIEW (on pages 37, 38)

RS-BX606



RS-BX626



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ORDER NO. AD9106169C5
A2

Service Manual

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Stereo Cassette Deck

Cassette Deck
RS-BX606

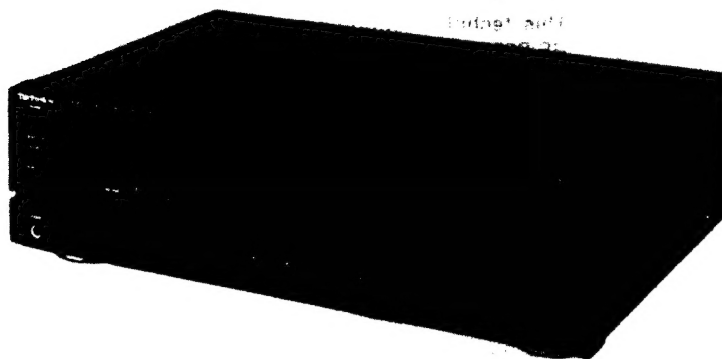
DOLBY B-C NR HX PRO

Color

(K)... Black Type

Area

Country Code	Area	Color
(PP)	U.S.A./Canada.	(K)
(EB)	Great Britain.	
(EG)	F.R. Germany and Italy./Continental Europe.	



* HX Pro headroom extension originated by Bang Olufsen and manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY", the double-D symbol, and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

RS-TR555 MECHANISM SERIES (AR350)

SPECIFICATIONS

■ CASSETTE DECK SECTION

Deck system	Stereo cassette deck
Track system	4-track, 2-channel
Recording system	AC bias
Bias frequency	80 kHz
Erasing system	AC erase
Heads	Recording head (Permalloy) × 1 Playback head (Permalloy) × 1 Erasing head (Double-gap ferrite) × 1
Motors	Capstan drive (Quartz DD motor) × 1 Reel table drive (DC motor) × 1
Tape speed	4.8 cm/sec. (1-7/8 ips)
Wow and flutter	0.05% (WRMS)
For (EB, EG) areas only	±0.14% (DIN)
Fast forward and rewind time	Approx. 100 seconds with C-60 cassette tape
Frequency response (Dolby NR off)	
NORMAL	30 Hz~17 kHz, ±3 dB
For (PP) area	20 Hz~19 kHz
For others	20 Hz~18 kHz (DIN)
CrO ₂	30 Hz~18 kHz, ±3 dB
For (PP) area	20 Hz~20 kHz
For others	20 Hz~19 kHz (DIN)
METAL	30 Hz~19 kHz, ±3 dB
For (PP) area	20 Hz~21 kHz
For others	20 Hz~20 kHz (DIN)

S/N (signal level=max recording leve, CrO₂ type tape)

NR off	57 dB (A weighted)
Dolby B NR on	66 dB (CCIR)
Dolby C NR	74 dB (CCIR)

Input sensitivity and impedance

LINE IN	600 mV/47 kΩ
---------	--------------

Output voltage and impedance

LINE OUT	400 mV/800 Ω
HEADPHONES	125 mV/(8 Ω)

(Load impedance 8 Ω~600 Ω)

■ GENERAL

Power consumption

20 W

Power supply

For (PP) area

AC 60 Hz, 120 V

For others

AC 50 Hz/60 Hz, 230 V~240 V

Dimensions (W × H × D)

430 × 125 × 300 mm

(16-15/16" × 4-15/16" × 11-13/16")

Weight

4.3 kg (9.46 lb.)

Note:

Specifications are subject to change without notice.

Weight and dimensions are approximate.

Technics

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※ TECHNICAL INFORMATION

This technical information is located on pp 45-51 of the RS-B555 Service Manual (Order No. AD8907231C5). Therefore, refer to that Service Manual. There is a few differences in this schematic diagram. But this is the same as RS-B555 basically.

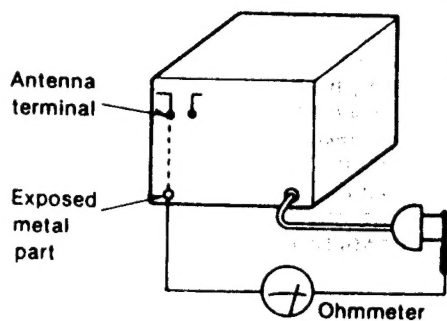
■ SAFETY PRECAUTION (This "safety precaution" is applied only in U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

● INSULATION RESISTANCE TEST

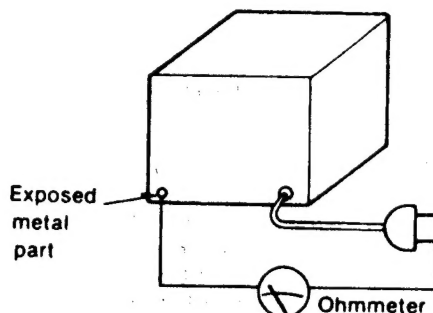
1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between $3M\Omega$ and $5.2M\Omega$ to all exposed parts. (Fig. A) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. B)

Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.



(Fig. A)

Resistance = $3M\Omega - 5.2M\Omega$

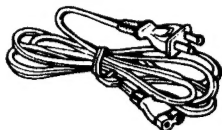


(Fig. B)

Resistance = Approx ∞

4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

■ ACCESSORIES



AC power supply cord
 (SFDAC05E03) (EG)
 (SJA175) (PP)
 (SJA193) (EB) 1 pc.



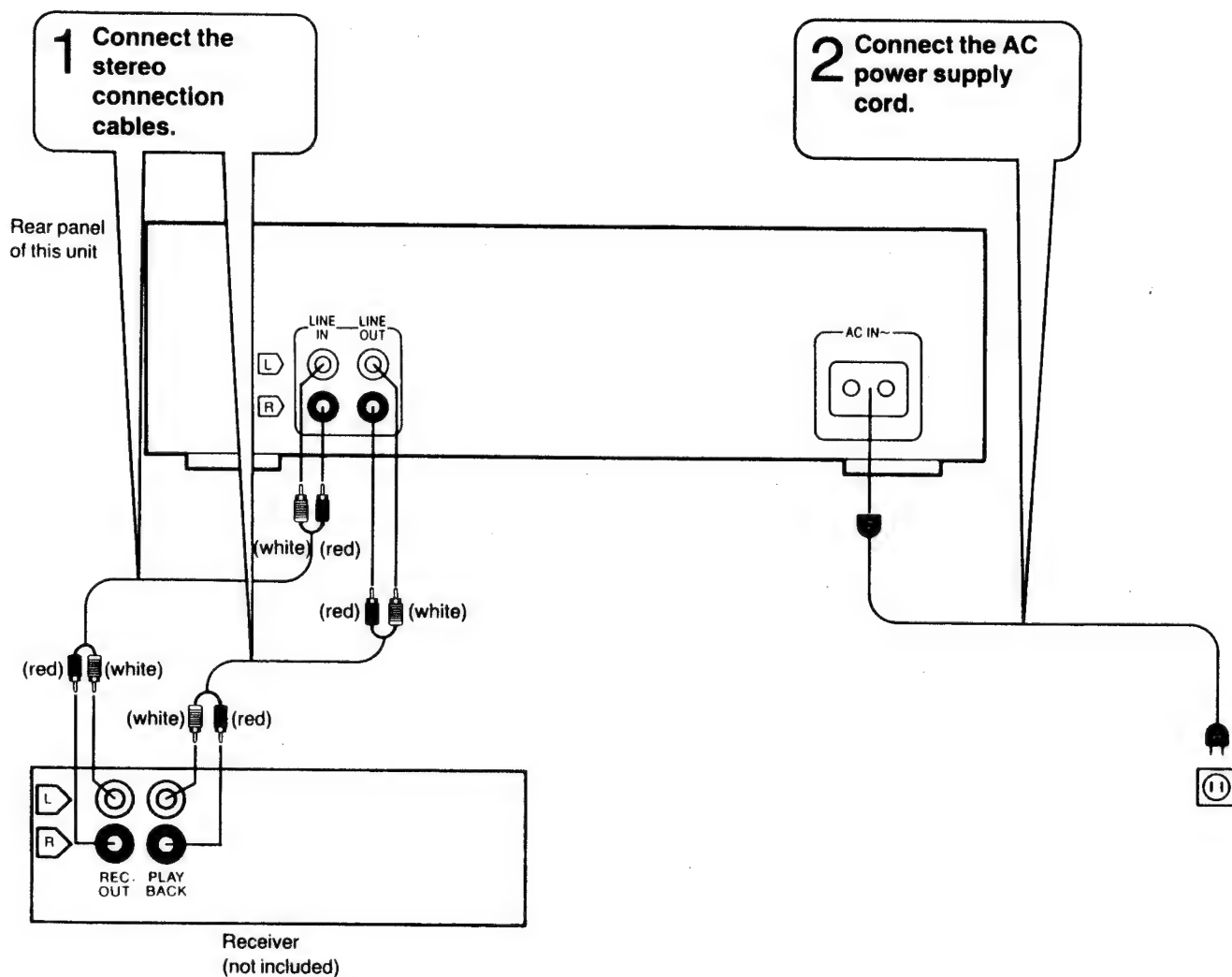
Stereo connection cables
 (SJP2249-3) 2 pcs.

Note: Configuration of AC power supply cord differs according to area.

■ CONNECTIONS

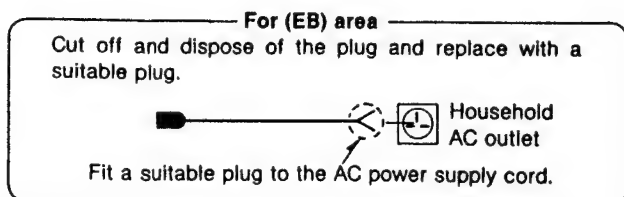
Before making connections, be sure that the power to this unit and all other system components are turned off first.

See the operating instructions of the receiver or the compact disc player for details.

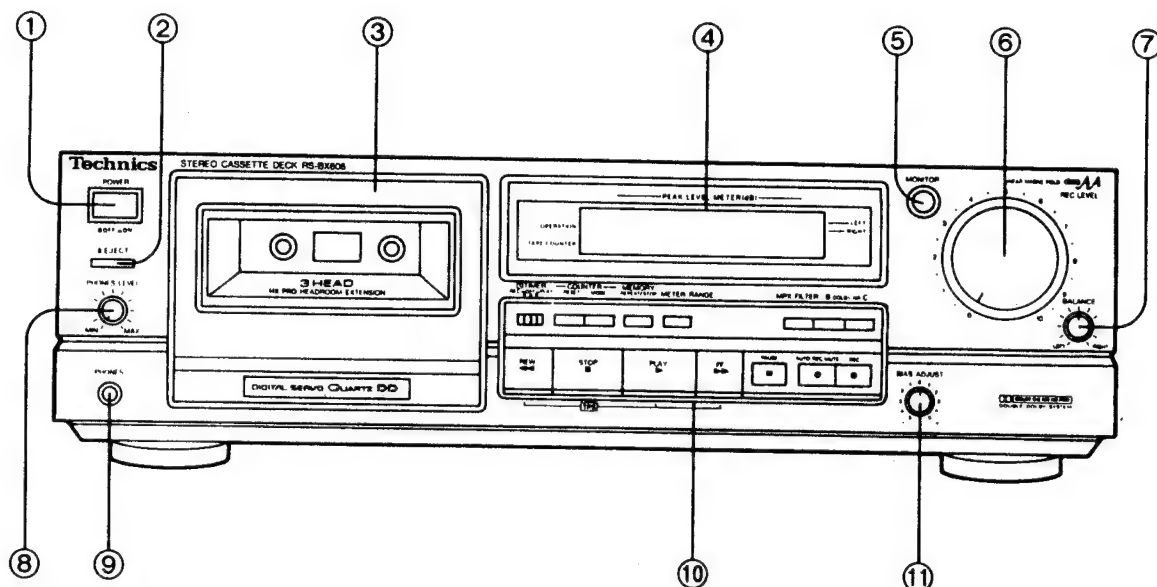


- 1 Connect the stereo connection cables (included) to the REC OUT and PLAYBACK terminals of the receiver.

- 2 Connect the power supply cord (included) to the household AC outlet.



■ LOCATION OF CONTROLS



Control section

① Power switch (POWER).....For PP area

Press (■) to switch the power on.

Press again (■) to switch the power off.

Power "STANDBY (ON)" switch...For others (POWER ■ STANDBY (ON))

This switch switches ON and OFF the secondary circuit power only. The unit is in the "standby" condition when this switch is set to the STANDBY (ON) position. Regardless of the switch setting, the primary circuit is always "live" as long as the power cord is connected to an electrical outlet.

② Eject button (▲ EJECT)

This button is used to open the cassette holder.

③ Cassette holder

④ Display section

(See "Display section" on page 6.)

⑤ Monitor switch (MONITOR)

The monitor switch is used to select the sound source just prior to or just after recording.

"SOURCE" position: Set to this position to monitor the sound to be recorded.

"TAPE" position: Set to this position to monitor the sound just recorded.

⑥ Recording-level control (REC LEVEL)

This control is used to regulate the recording level.

⑦ Recording-balance control (BALANCE)

This control is used to balance the left and right sound levels during recording.

⑧ Headphones volume control (PHONES LEVEL)

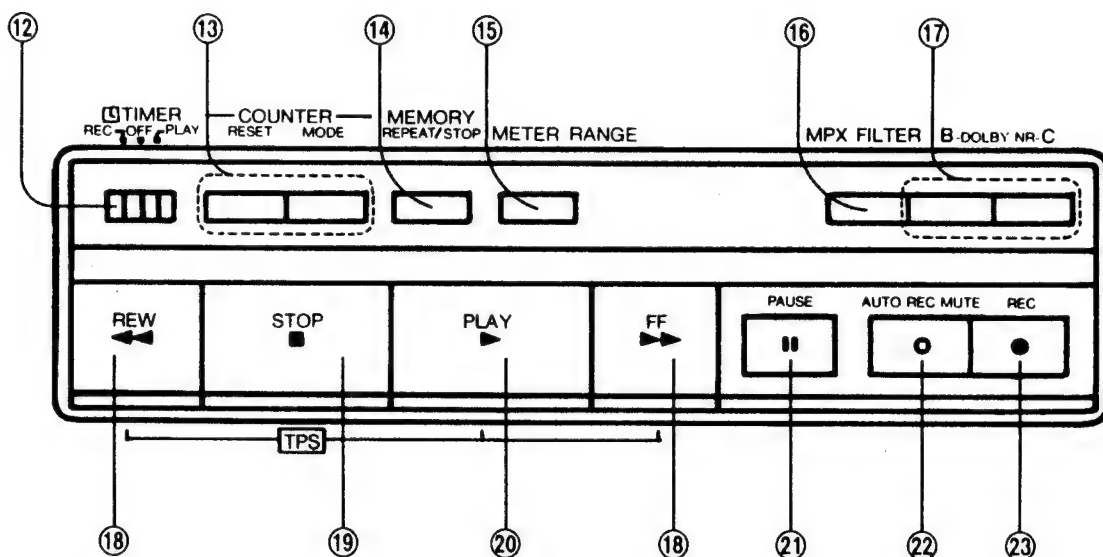
⑨ Headphones jack (PHONES)

⑩ Operation section

(See "Operation section" on page 5.)

⑪ Bias-adjustment control (BIAS ADJUST)

The frequency response for each tape type can be equalized by using this control.



Operation section

⑫ Timer switch (☐ TIMER)

This switch is used to automatically begin a tape recording or tape playback at a certain time, selected by an optional timer.

⑬ Counter buttons (COUNTER RESET/MODE)

RESET: This button can be used to reset the tape/linear counter indication to "000_"/"00.00".

MODE: This button can be used to select the tape/linear counter indication.

⑭ Memory-mode button (MEMORY REPEAT/STOP)

REPEAT: This button can be used to set this unit to the "A-B repeat" mode.

STOP: This button can be used to rewind the tape to the preset "0000" point when the rewind (◀◀) button is pressed.

⑮ Meter-range selector (METER RANGE)

This selector can be used to select the meter-range display of the input level meter.

⑯ Multiplex filter switch (MPX FILTER)

This prevents the Dolby circuit from operating in error when FM stereo broadcasts are recorded using the noise reduction function.

⑰ Dolby noise-reduction buttons (DOLBY NR)

These buttons are used to reduce the hissing noise heard from the tape. This unit is provided with both the B-type and C-type noise-reduction systems.

⑱ Rewind/fast-forward/search button (◀◀ REW, ▶▶ FF, [TPS])

These TPS (Tape Program Search) buttons are used to advance or rewind the tape, or to easily and quickly search for the program's beginning on the tape.

⑲ Stop button (■ STOP)

This button is used to stop the tape movement.

⑳ Playback button (▶ PLAY)

This button can be used to start the playback or recording of the cassette.
(The tape will then begin moving in the left-to-right direction.)

㉑ Pause button (|| PAUSE)

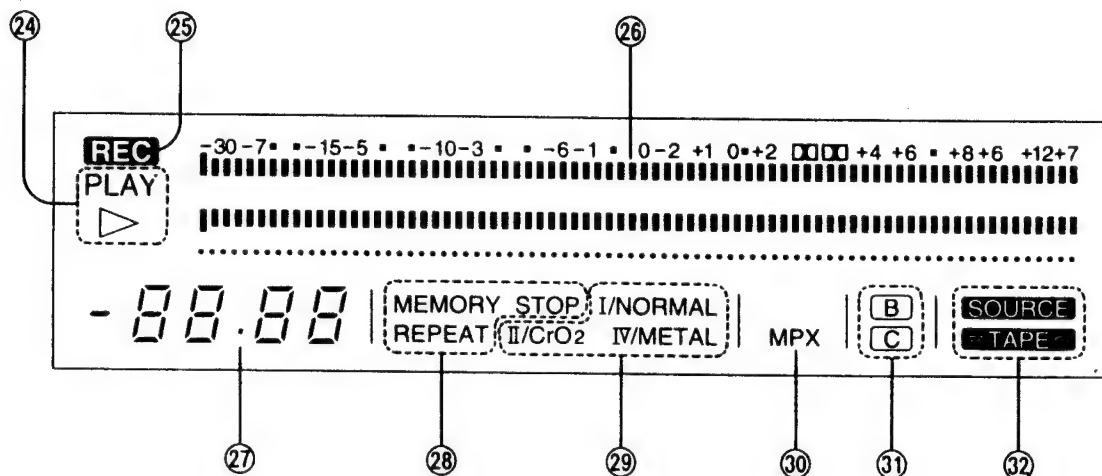
This button is used to temporarily stop the tape playback or recording of the deck.

㉒ Automatic-record-muting button (○ AUTO REC MUTE)

This button is used to tape a silent interval on the tape while recording is in progress.

㉓ Record button (● REC)

This button is used to set the deck to the recording stand-by mode.



Display section

②④ Playback indicator (PLAY ▷)

When this indicator illuminates steadily, it indicates that this unit is in the playback or recording mode.

When flashing, indicates that this unit is in the pause mode or in the recording stand-by mode.

②⑤ Recording indicator (REC)

Illuminates to indicate that this unit is in the recording stand-by mode or is recording.

②⑥ Input level meter

During playback, this meter indicates the level of the recorded sound.

During recording, it indicates the level being recorded, adjusted by the recording-level control.

②⑦ Tape/Linear counter

Indicates the amount of tape movement or elapsed time.

②⑧ Memory-mode indicators

(MEMORY REPEAT/MEMORY STOP)

Each indicator illuminates to show which of the memory modes was set by the memory-mode button.

②⑨ Tape-select indicators

(I/NORMAL, II/CrO₂, IV/METAL)

The type of tape being used will be automatically detected. The corresponding indicator illuminates to show the tape type.

③⑩ Multiplex filter indicator (MPX)

Illuminates to indicate that the multiplex filter is set to "on".

③⑪ Dolby noise-reduction indicators (B, C)

Each indicator illuminates to show the type of Dolby noise-reduction system selected by pressing one of the Dolby noise-reduction buttons.

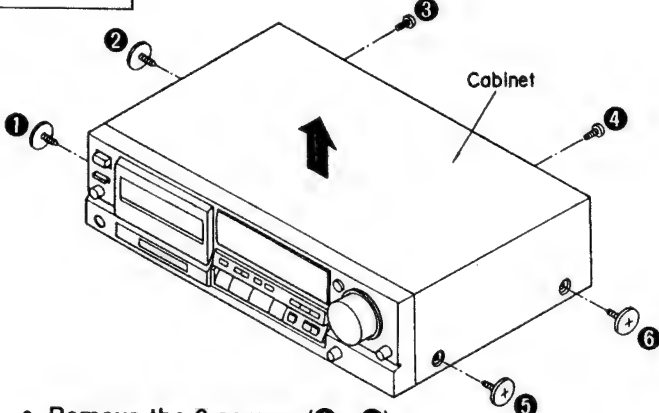
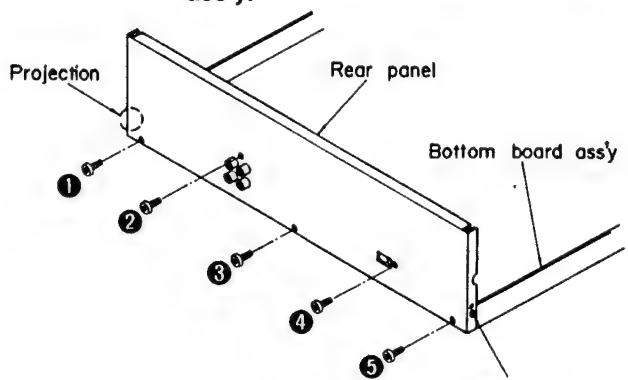
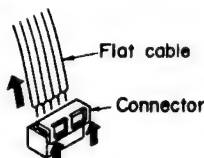
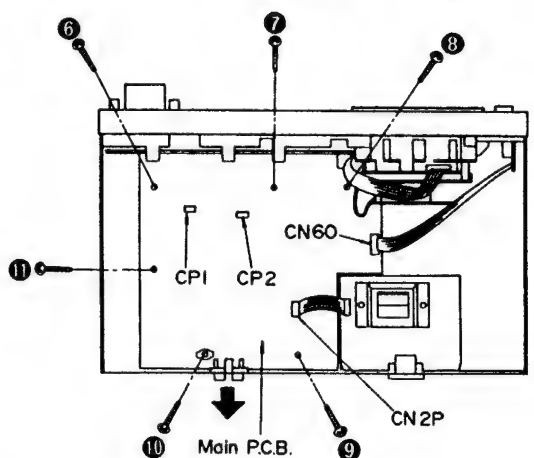
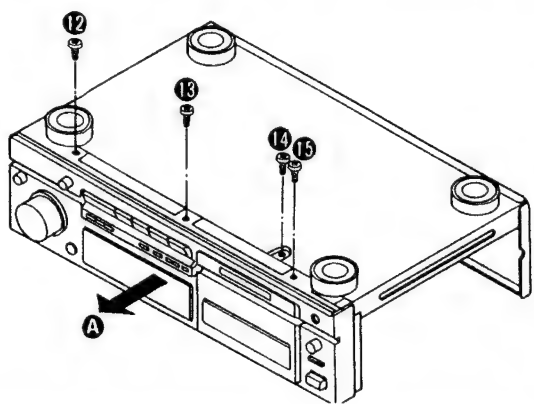
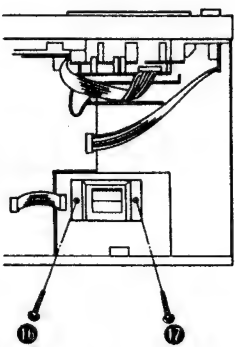
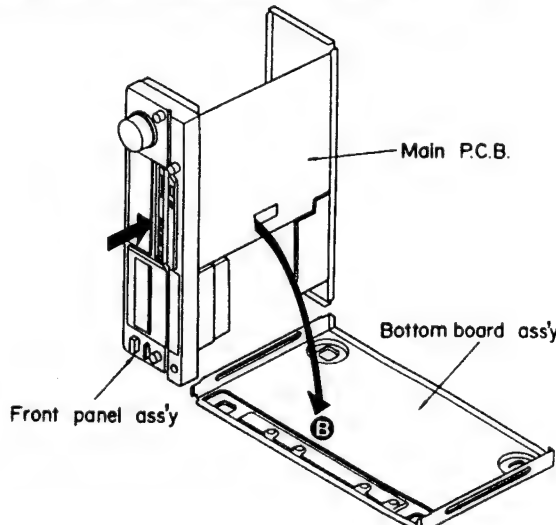
③⑫ Monitor indicators (SOURCE, TAPE)

Each indicator illuminates to show the corresponding setting from the monitor switch.

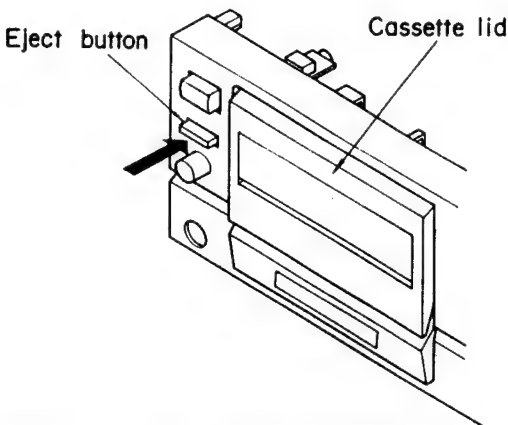
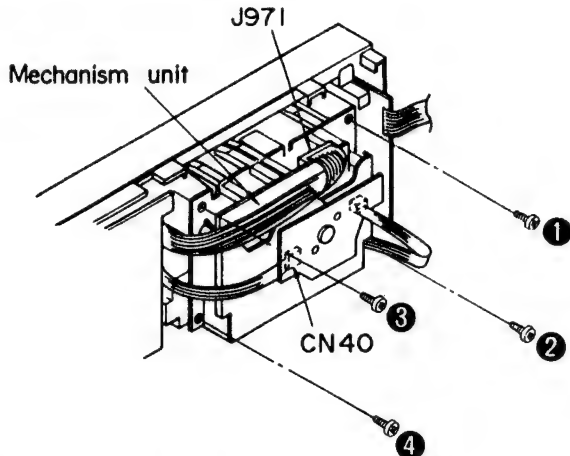
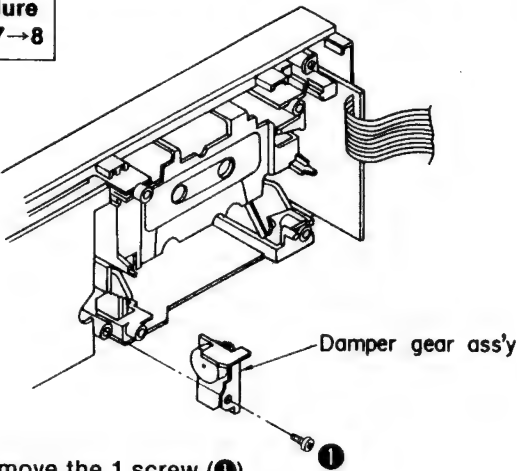
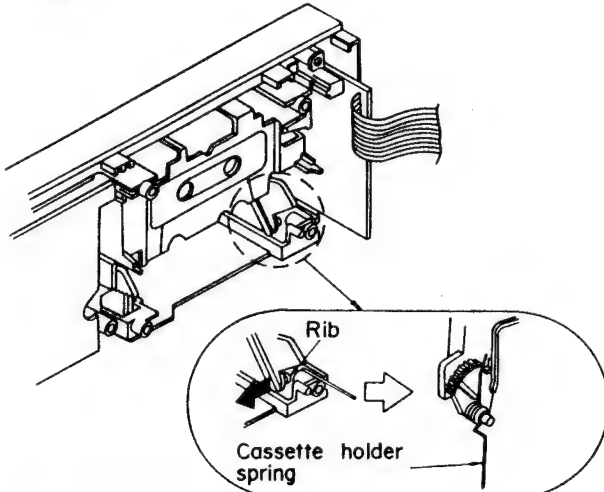
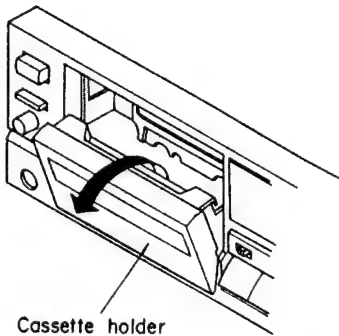
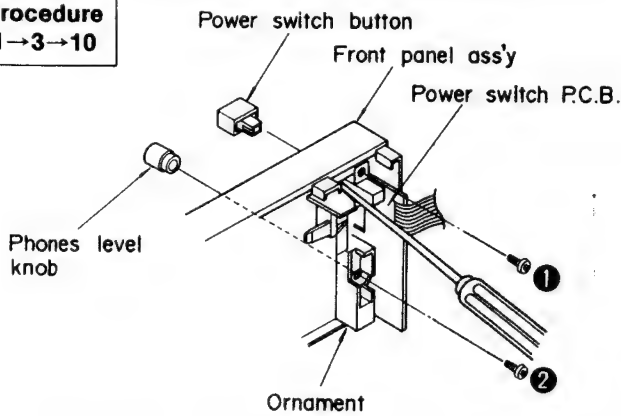
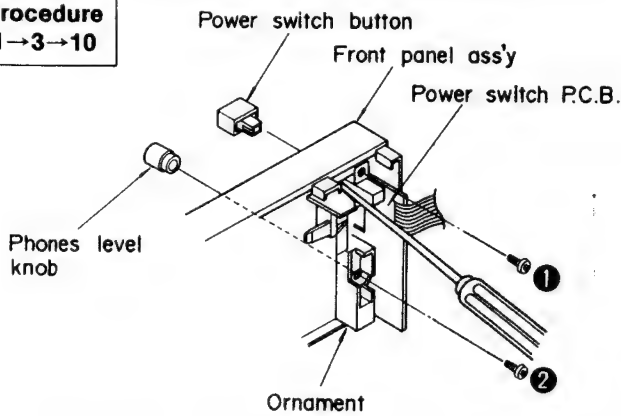
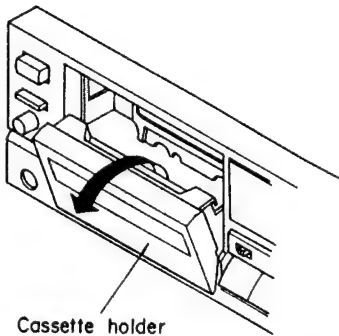
DISASSEMBLY INSTRUCTIONS

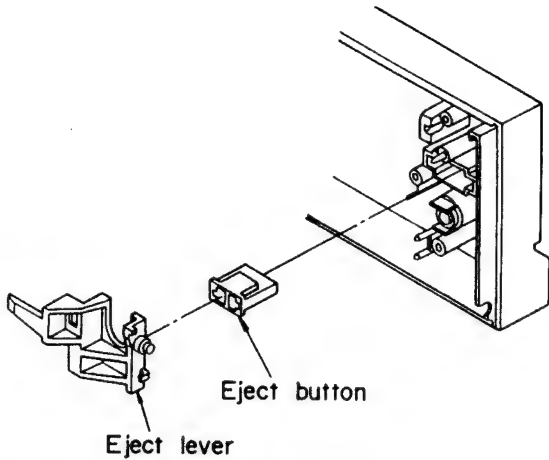
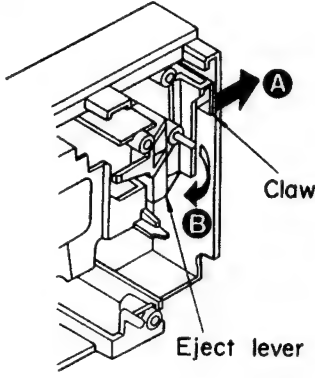
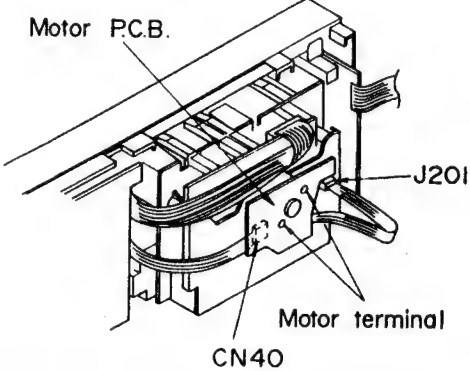
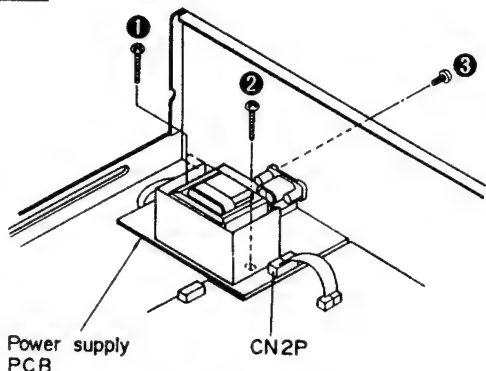
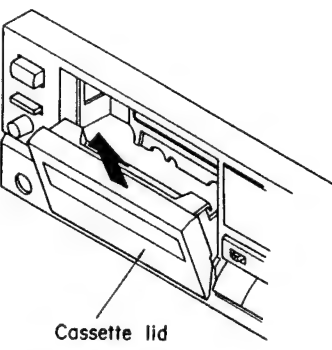
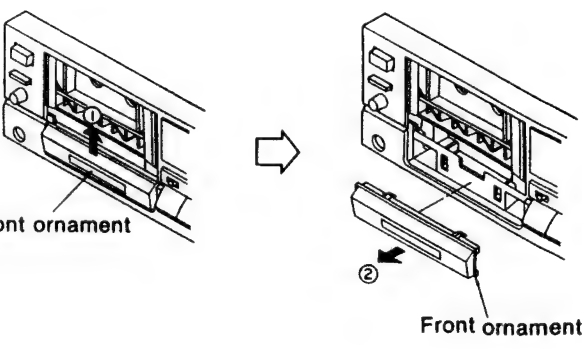
"ATTENTION SERVICER"

Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 1	Ref. No. 2
Removal of the cabinet	Removal of the main P.C.B.
<p>Procedure 1</p>  <p>• Remove the 6 screws (①~⑥).</p>	<p>Procedure 1→2</p> <p>1. Remove the 5 screws (①~⑤). 2. Remove the rear panel from the projection of the bottom board ass'y.</p> 
<p>3. Remove the 6 screws (⑥~⑪). 4. Remove the 2 connectors (CP1, CP2). 5. Remove the 2 flat cables (CN2P, CN60). 6. Remove the main P.C.B. in the direction of arrow.</p> <p>How to remove the flat cable</p> 	
<p>How to check the main P.C.B.</p> <p>• When checking the soldered surfaces of main P.C.B. and replacing the parts, do as show.</p> <p>1. Remove the 9 screws (①, ③, ⑥~⑪) in above figure. 2. Remove the 6 screws (⑫~⑰). 3. Remove the front panel ass'y in the direction of arrow A.</p>  	<p>4. Remove the bottom board ass'y in the direction of arrow B. 5. Reinstall the front panel ass'y to the main P.C.B.</p> 

Ref. No. 3	Removal of the front panel ass'y	<div data-bbox="812 114 1288 174"> 2. Remove the 2 connectors (CP1, CP2). 3. Remove the 1 flat cable (CN60). </div> <div data-bbox="918 203 1350 546"> </div> <div data-bbox="812 577 1459 638"> 4. Remove the front panel ass'y in the direction of arrow. </div>	
Ref. No. 4	Removal of the FL drive P.C.B.	<div data-bbox="84 824 471 1211"> </div> <div data-bbox="103 1272 448 1332"> 1. Pull out the rec level knob. 2. Remove the nut. </div> <div data-bbox="514 824 859 1093"> <div data-bbox="529 835 843 891"> • Pull out the flat cable while pressing the connector. </div> </div> <div data-bbox="911 741 1365 1173"> </div> <div data-bbox="812 1218 1455 1361"> 3. Remove the 2 flat cables (CN40, J971). 4. Remove the 1 screw (①). 5. Release the 2 claws. 6. Remove the FL drive P.C.B. in the direction of arrow. </div>	
Ref. No. 5	Removal of the rec level P.C.B.	Ref. No. 6	Removal of the operation P.C.B.
Procedure 1→3→4→5	<div data-bbox="194 1496 691 1906"> </div> <div data-bbox="103 1912 738 1973"> • Remove the rec level P.C.B. in the direction of arrow. </div>	Procedure 1→3→4→6	<div data-bbox="879 1563 1376 1883"> </div> <div data-bbox="816 1899 1193 1989"> 1. Pull out the 2 knobs. 2. Remove the 7 screws (①~⑦). 3. Release the 9 claws. </div>

Ref. No. 7	Removal of the mechanism unit	<div data-bbox="293 194 801 620">  <p>Eject button</p> <p>Cassette lid</p> </div> <div data-bbox="889 127 1459 584">  <p>J971</p> <p>Mechanism unit</p> <p>CN40</p> <p>①</p> <p>②</p> <p>③</p> <p>④</p> </div> <div data-bbox="158 629 1348 674"> <p>1. Push the eject button and open the cassette lid.</p> <p>2. Remove the 2 flat cables (CN40, J971).</p> <p>3. Remove the 4 screws (①~④).</p> </div>	
Ref. No. 8	Removal of the damper gear ass'y	Ref. No. 9	Removal of the cassette holder
Procedure 1→3→7→8	Procedure 1→3→7→8	Procedure 1→3→7→8→9	Procedure 1→3→7→8→9
<div data-bbox="221 775 738 1247">  <p>Damper gear ass'y</p> <p>①</p> </div> <div data-bbox="158 1234 471 1254"> <p>• Remove the 1 screw (①).</p> </div>	<div data-bbox="863 842 1467 1335">  <p>Rib</p> <p>Cassette holder spring</p> </div> <div data-bbox="856 1359 1364 1413"> <p>1. Remove the rib in the direction of arrow.</p> <p>2. Remove the cassette holder spring.</p> </div>	<div data-bbox="1005 1525 1343 1861">  <p>Cassette holder</p> </div> <div data-bbox="856 1906 1499 1962"> <p>3. Pull out the cassette holder in the direction of arrow.</p> </div>	
Ref. No. 10	Removal of the power switch P.C.B.		
Procedure 1→3→10	Procedure 1→3→10		
<div data-bbox="158 1368 779 1785">  <p>Power switch button</p> <p>Front panel ass'y</p> <p>Power switch P.C.B.</p> <p>Phones level knob</p> <p>Ornament</p> <p>①</p> <p>②</p> </div> <div data-bbox="158 1830 801 1973"> <p>1. Remove the power switch button by pushing it from behind the front panel ass'y.</p> <p>2. Pull out the phones level knob.</p> <p>3. Remove the 2 screws (①, ②).</p> <p>4. Remove the ornament.</p> </div>	<div data-bbox="158 1368 779 1785">  <p>Power switch button</p> <p>Front panel ass'y</p> <p>Power switch P.C.B.</p> <p>Phones level knob</p> <p>Ornament</p> <p>①</p> <p>②</p> </div> <div data-bbox="158 1830 801 1973"> <p>1. Remove the power switch button by pushing it from behind the front panel ass'y.</p> <p>2. Pull out the phones level knob.</p> <p>3. Remove the 2 screws (①, ②).</p> <p>4. Remove the ornament.</p> </div>	<div data-bbox="1005 1525 1343 1861">  <p>Cassette holder</p> </div> <div data-bbox="856 1906 1499 1962"> <p>3. Pull out the cassette holder in the direction of arrow.</p> </div>	

Ref. No. 11	Removal of the eject lever and eject button	 <p>Eject button</p> <p>Eject lever</p>	
Procedure 1→3→10 →11	 <p>Claw</p> <p>Eject lever</p> <p>1. Push the claw in the direction of arrow A.</p> <p>2. Remove the eject lever in the direction of arrow B.</p> <p>3. Pull out the eject button.</p>		
Ref. No. 12	Removal of the motor P.C.B.	Ref. No. 13	Removal of the power supply P.C.B.
Procedure 1→3→12	 <p>Motor P.C.B.</p> <p>J201</p> <p>Motor terminal</p> <p>CN40</p> <p>1. Remove the 2 flat cables (CN40, J201).</p> <p>2. Unsolder the motor terminal.</p>  <p>Power supply P.C.B.</p> <p>CN2P</p> <p>1. Remove the 1 flat cable (CN2P).</p> <p>2. Remove the 3 screws (①~③).</p>		
Ref. No. 14	Removal of the cassette lid	Ref. No. 15	Removal of the front ornament
Procedure 14	 <p>Cassette lid</p> <p>• Remove the cassette lid in the direction of arrow.</p>  <p>Front ornament</p> <p>Front ornament</p> <p>• Remove the front ornament in the direction of arrow ①, ②.</p>		

MEASUREMENT AND ADJUSTMENT METHODS

Measurement Condition

- Rec. level control; Maximum
- Timer switch; Off
- MPX filter switch: off
- Bias-adjustment VR: Center
- Dolby NR switch; Off
- Make sure heads are clean
- Make sure capstan and pressure roller are clean
- Judgeable room temperature $20 \pm 5^\circ\text{C}$ ($68 \pm 9^\circ\text{F}$)

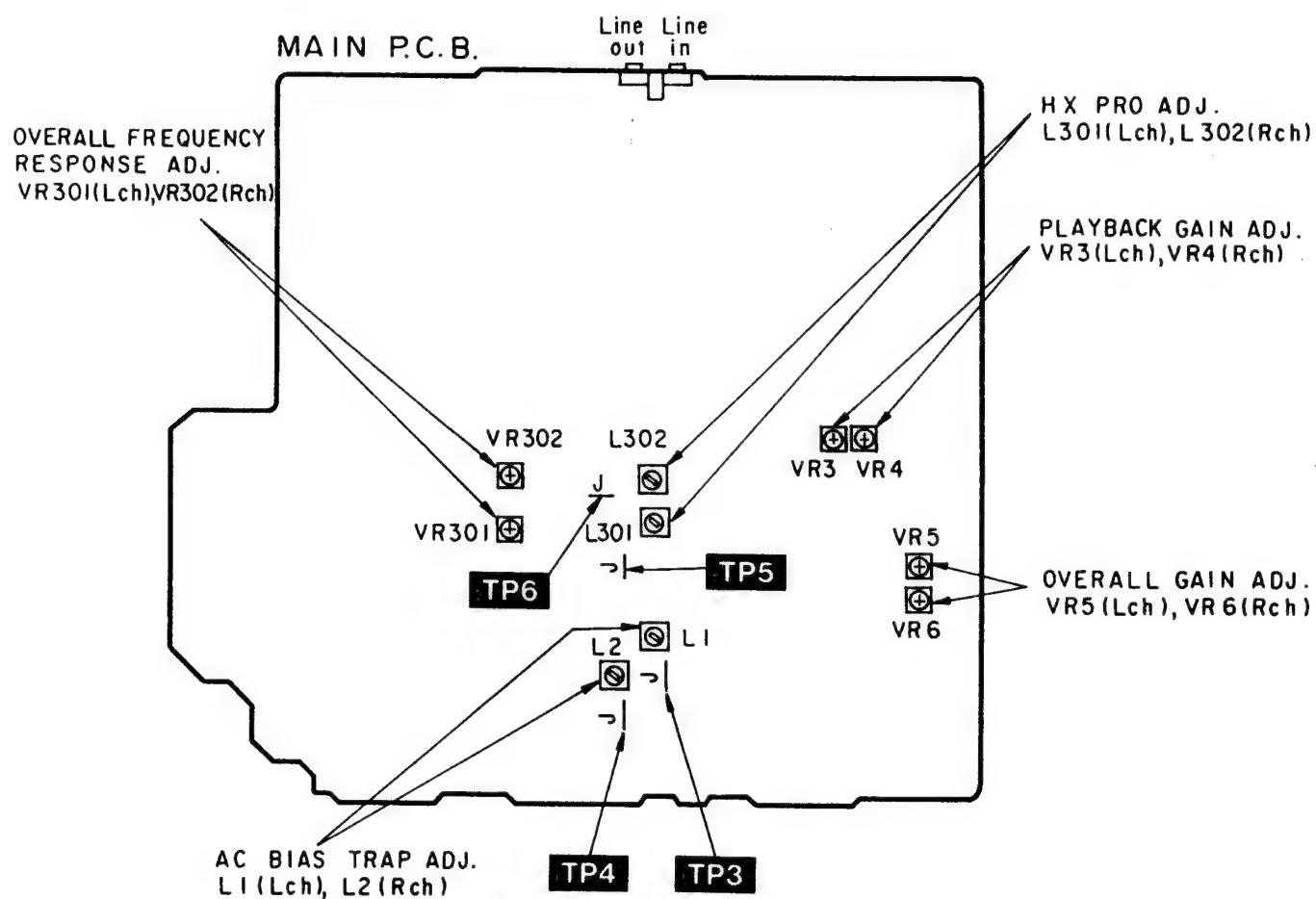
Measuring Instrument

- EVM (Electronic Voltmeter)
- Oscilloscope
- Digital frequency counter
- AF oscillator
- ATT (Attenuator)
- Resistor (600Ω)

Test tape

- Head azimuth adjustment (8kHz, -20dB); QZZCFM
- Tape speed adjustment (3kHz, -10dB); QZZCWAT
- Playback frequency response (315Hz, 12.5kHz, 10kHz, 8kHz, 4kHz, 1kHz, 250Hz, 125Hz, 63Hz, -20dB); QZZCFM
- Playback gain adjustment (315Hz, 0dB); QZZCFM
- Overall frequency response, Overall gain adjustment
Normal reference blank tape; QZZCRA
CrO₂ reference blank tape; QZZCRX
Metal reference blank tape; QZZCRZ

Adjustment Points



HEAD AZIMUTH ADJUSTMENT

1. Playback the azimuth adjustment portion (8 kHz, -20 dB) of the test tape (QZZCFM). Vary the azimuth adjusting screw until the output of the R-CH are maximized.
2. Perform the same adjustment in the play mode.
3. After the adjustment, apply screwlock to the azimuth adjusting screw.

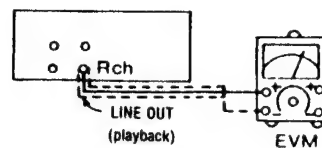


Fig. 1

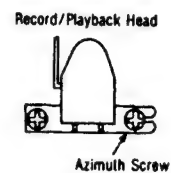


Fig. 2

PLAYBACK GAIN ADJUSTMENT

1. Playback the gain adjusted portion (315 Hz, 0 dB) of the test tape (QZZCFM).
2. Adjust VR3 (L-CH) and VR4 (R-CH) so that the output is within the standard value.

Standard value: $0.4V \pm 0.5dB$

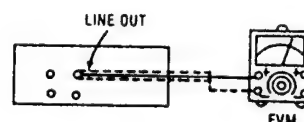


Fig. 3

PLAYBACK FREQUENCY RESPONSE

1. Playback the frequency response portion (315Hz, 12.5kHz~63Hz, -20dB) of the test tape (QZZCFM).
2. Assure that the frequency response is within the range shown in Fig. 5 for both L-CH and R-CH.

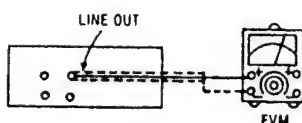


Fig. 4

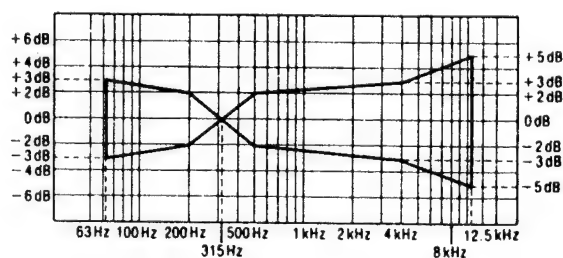


Fig. 5

AC BIAS TRAP ADJUSTMENT

1. Insert the Metal blank test tape (QZZCRZ) and set the unit to the Record mode.
2. Adjust L1 (L-CH) [[L2 (R-CH)]] so that the output voltage between TP3 (TP4) and GND is less than the minimum value.

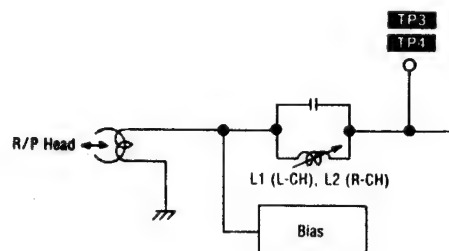


Fig. 6

HX PRO ADJUSTMENT

1. Insert the Metal blank tape (QZZCRZ) and set the unit to the Record Pause mode.
2. Connect a DC voltmeter across TP5 (L-CH) and GND, TP6 (R-CH) and GND.
3. Adjust L301 (L-CH) and L302 (R-CH) so that the output is the minimum value.

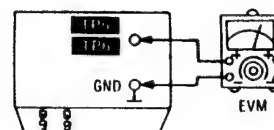


Fig. 7

OVERALL FREQUENCY RESPONSE

1. Insert the normal blank test tape (QZZCRA) and set the unit to the record pause mode.
2. Apply a reference input signal (1 kHz, -24 dB) through an attenuator.
3. Attenuate the signal by 20 dB and adjust the frequency from 50 Hz ~ 10 kHz.
4. Record the frequency sweep.
5. Playback the recorded signal and assure that it is within the range shown in Fig. 8 in comparison to the reference frequency (1 kHz).
6. If it is not within the standard range, adjust VR301 (L-CH) and VR302 (R-CH) so that the frequency level is within the standard range.
 - Level up in high frequency rangeIncrease the bias current.
 - Level down in high frequency range...Decrease the bias current.
7. Repeat steps 2~6 above using the CrO₂ tape (QZZCRX) and the metal tape (QZZCRZ) Increasing the frequency range to 12.5 kHz (50 Hz ~ 12.5 kHz).
8. Assure that the level is within the range shown in Fig. 9.

Normal Overall frequency response chart (NR OUT)

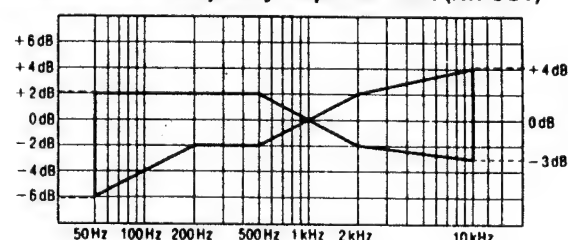


Fig. 8

CrO₂-Metal Overall frequency response chart (NR OUT)

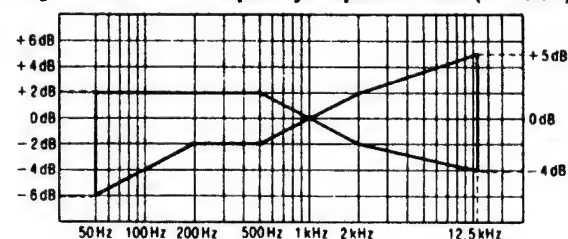


Fig. 9

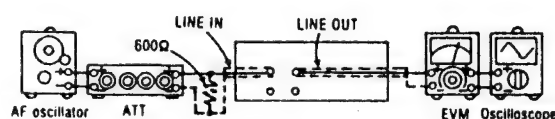


Fig. 10

OVERALL GAIN ADJUSTMENT

1. Insert the normal blank test tape (QZZCRA) and set the unit to the record pause mode.
2. Apply a reference input signal (1 kHz, -24 dB). Attenuate the output so that its level becomes 0.4 V.
3. Record this input signal.
4. Playback the signal recorded in step 3 above, and assure that the output is within the standard value.
5. If it is not within the standard value, adjust VR5 (L-CH) and VR6 (R-CH).
6. Repeat the step 2~5 above until the output is within the standard value.

Standard value: 0.4 V ± 0.5 dB

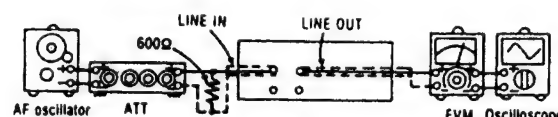


Fig. 11

■ TERMINAL FUNCTION OF IC'S

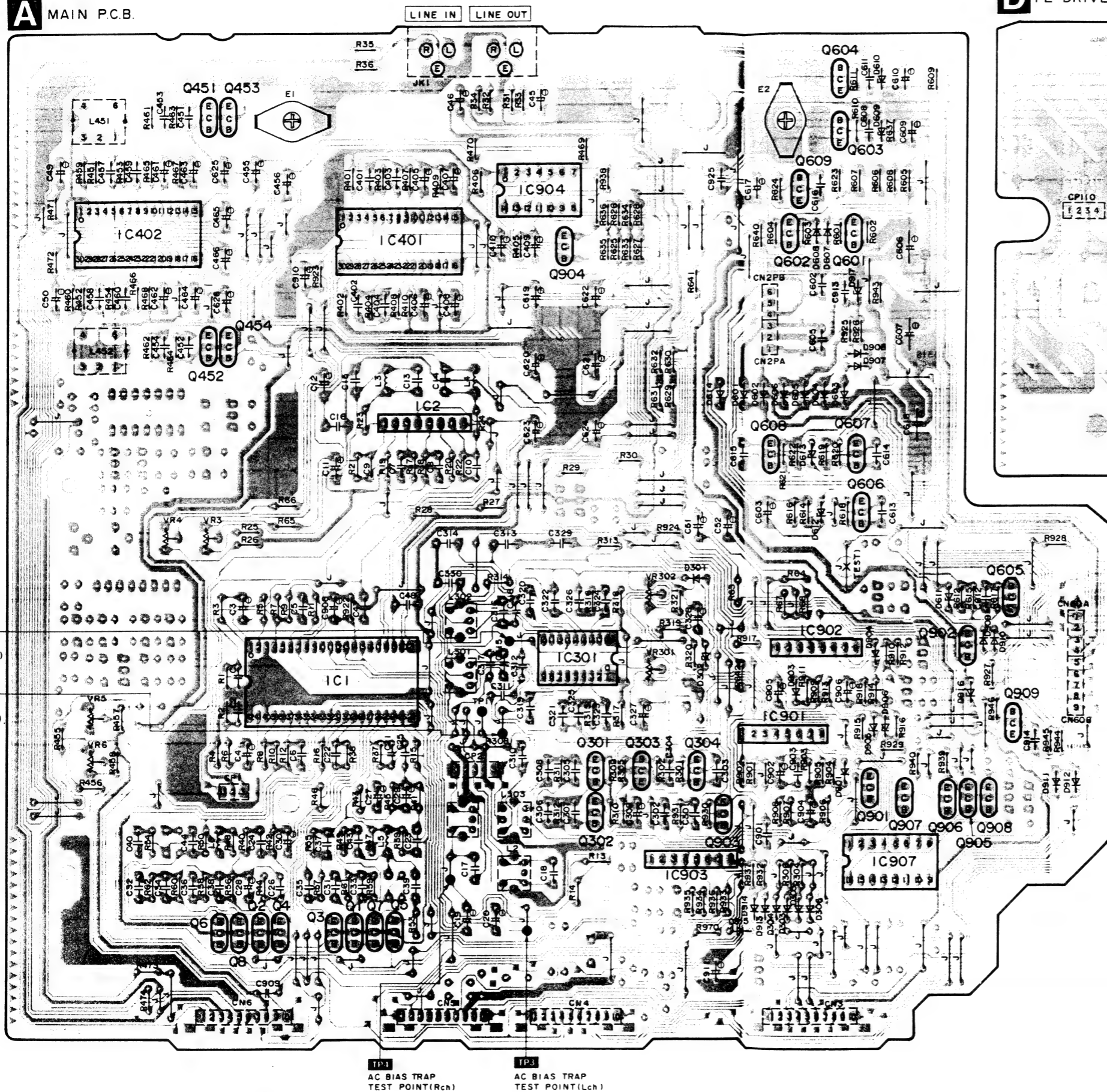
• IC501 (M50942-518SP): MICROCOMPUTER (This microcomputer is used for mechanical/FL DRIVE operation.)

Pin No.	Mark	I/O Division	Function
1	V _{REF}	I	A/D converter reference voltage (Connected to AV _{CC})
2	KEY1	I	Key switch Input STOP, FF, REW, PLAY, REC, PAUSE, Dolby B, C, MPX, TPLAY, TREC
3	KEY2	I	Key switch Input C-RESET, C-MODE, M-RANGE, MEMORY, ARM
4	MLCH	I	Lch indication level input
5	MRCH	I	Rch indication level input
6	APRS	I	Not used, connected to GND
7	R. INH	I	Rec. Inh. switch input Rec. OK: 1.5V, NG: 5V
8	TAPE	I	ATS switch Input Nor: 1.1V, CrO ₂ : 2.4V, Metal: 5V
9	RPT	I	Reel table (take up side) rotary det.
10	CAPM	O	Capstan motor ON/OFF control ON: "H", OFF: "L"
11	RMR	O	Reel motor ON/OFF control REW, R • TPS: "H", Others: "L"
12	RMF	O	Reel motor ON/OFF control (REC) PLAY, FF, F • TPS: "H", Others: "L"
13	T. SOL	O	Trigger solenoid ON/OFF control ON: "H", OFF: "L"
14	B. SOL	O	Brake solenoid ON/OFF control FF/REW/TPS: "H", Others: "L"
15	C/R SOL	O	Brake solenoid keep and reel motor speed select FF/REW/TPS: "H", Others: "L"
16	EJECT R	O	Not used
17	EJECT F	O	Not used
18	DMT	O	Line out muting control ON: "H", OFF: "L"
19	RMT	O	Rec amp muting control ON: "H", OFF: "L"

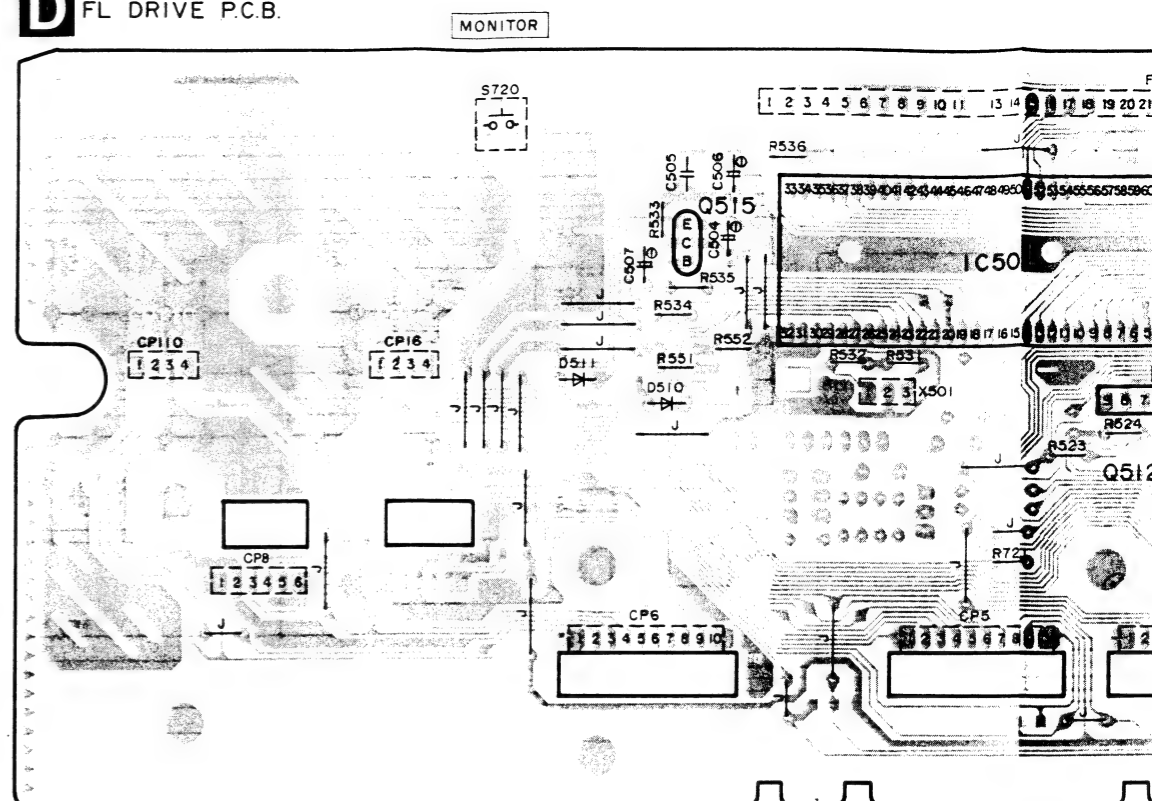
Pin No.	Mark	I/O Division	Function
20	CLOCK	O	Serial clock for amp, logic control (MPX, C, B, T/S)
21	DATA	O	Serial clock for amp, logic control (MPX, C, B, T/S)
22	EJTSEL	I	Model select terminal Always: "L"
23	CNTSEL	I	Model select terminal Always: "H"
24	POF	I	Power off det. OFF: "L"
25	REM	I	Not used
26	CNV _{SS}	I	Connected to V _{SS}
27	RESET	I	Reset input Normal: "H", Reset: "L"
28	X _{IN}	I	Clock OSC terminal (4MHz)
29	X _{OUT}	O	
30	X _{CIN}	I	Not used, connected to V _{SS}
31	X _{COUT}	O	Not used
32	V _{SS}	I	GND terminal
33	φ	O	Not used
34	RPS	I	Reel table (supply side) rotary det.
35	MSP	I	TPS (MS) det. No signal: "H" signal ON: "L"
36	MODE	I	Mech. mode switch (REC) PLAY, TPS: "L" Others: "H"
37	HALF	I	Mech. Half switch ON: "L", OFF: "H"
38	V _P	I	Reference voltage terminal
39 } 44 }	G1 } G6 }	O	FL grid control signal
45 } 62 }	S1 } S18 }	O	FL segment control signal
63	AV _{CC}	I	Power supply terminal for A/D converter
64	V _{CC}	I	Power supply terminal for micro computer

PRINTED CIRCUIT BOARDS

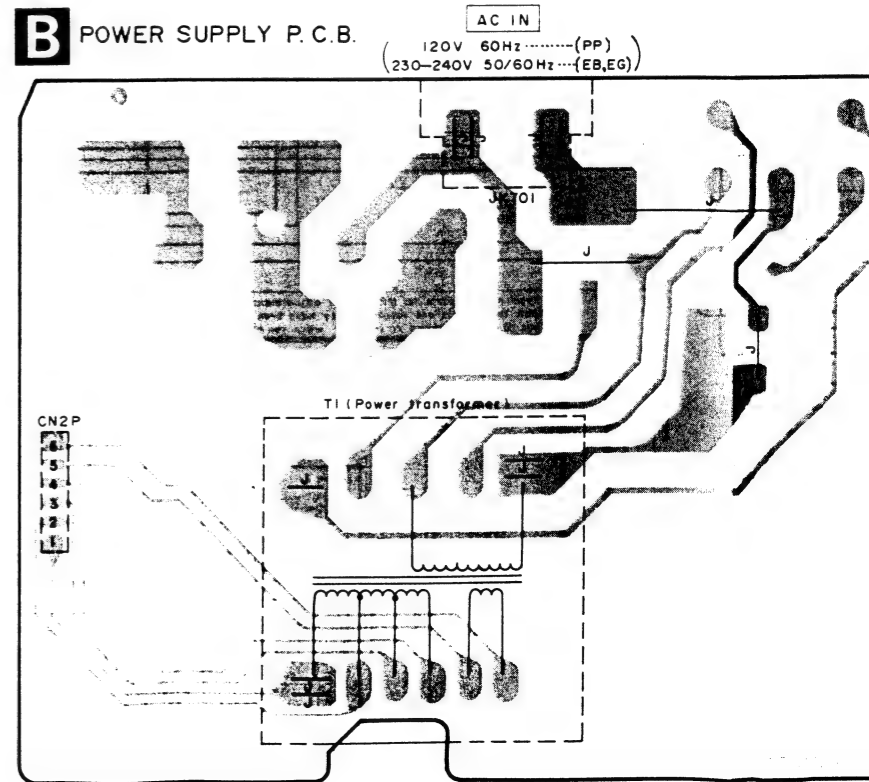
A MAIN P.C.B.



D FL DRIVE P.C.B.



B POWER SUPPLY P.C.B.



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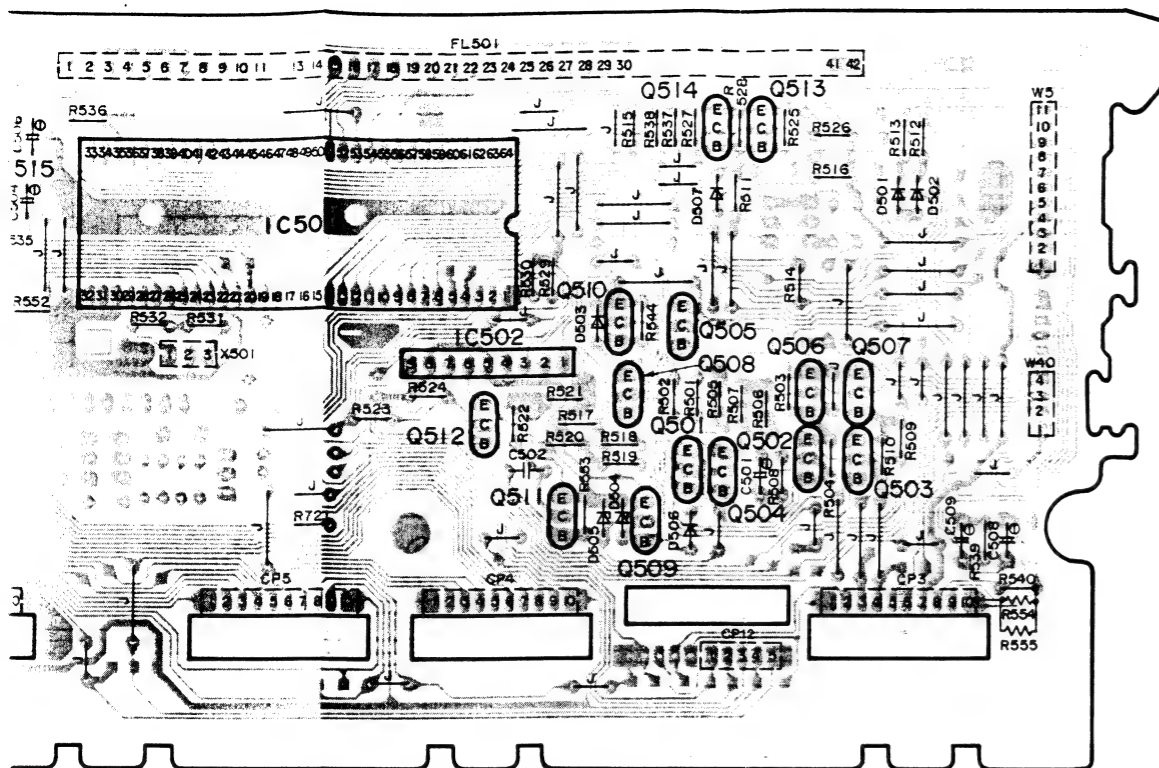
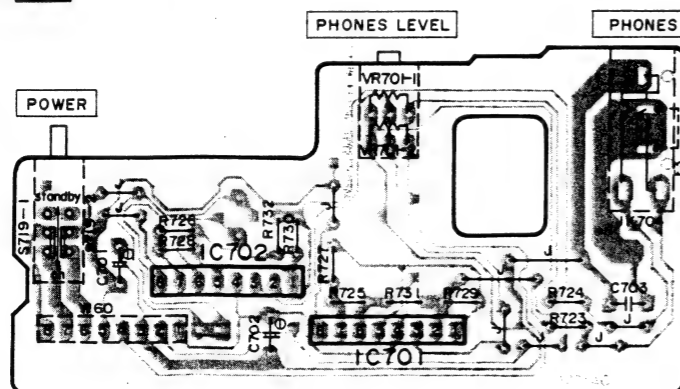
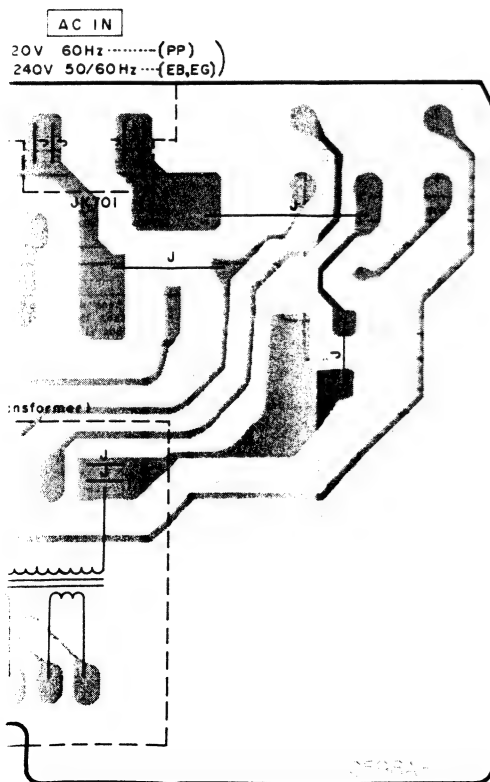
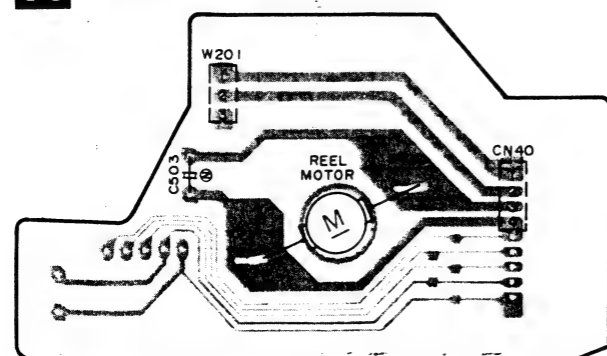
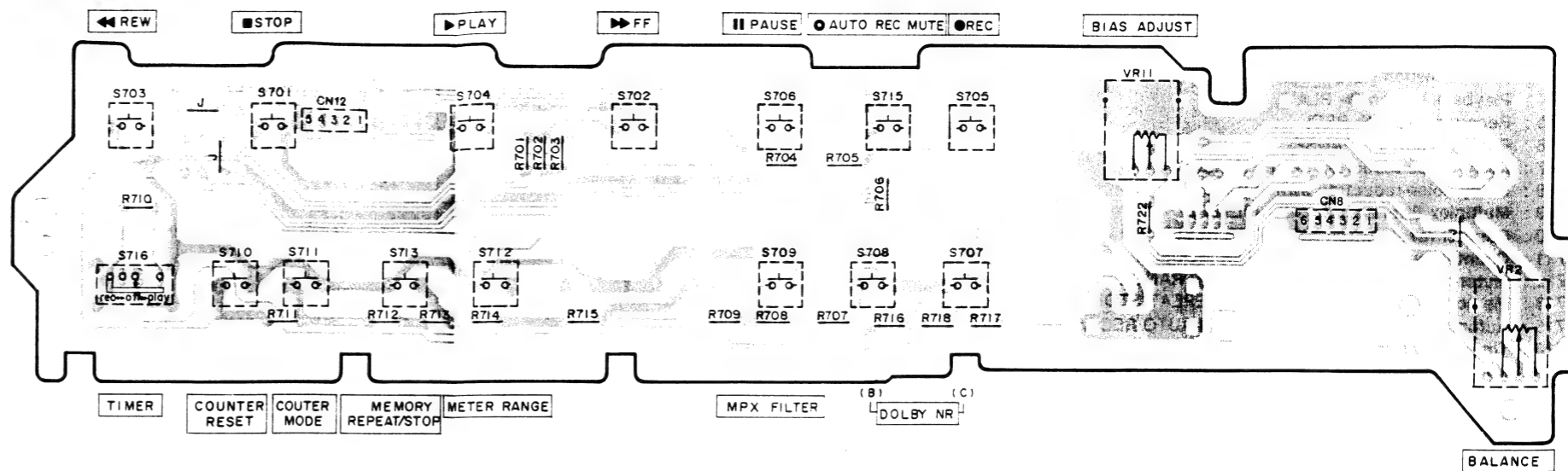
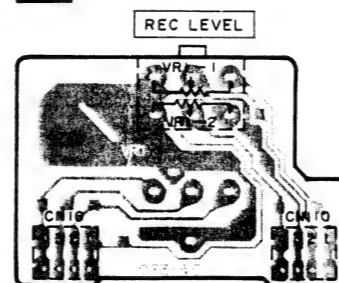
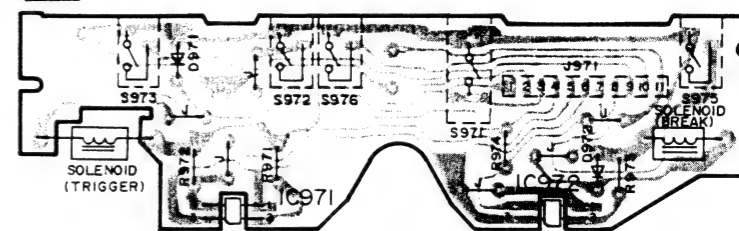
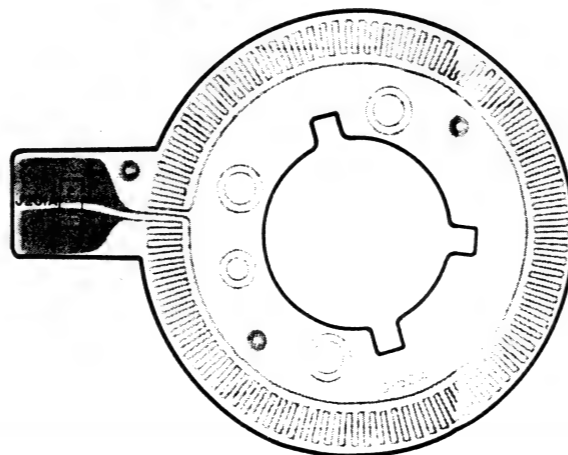
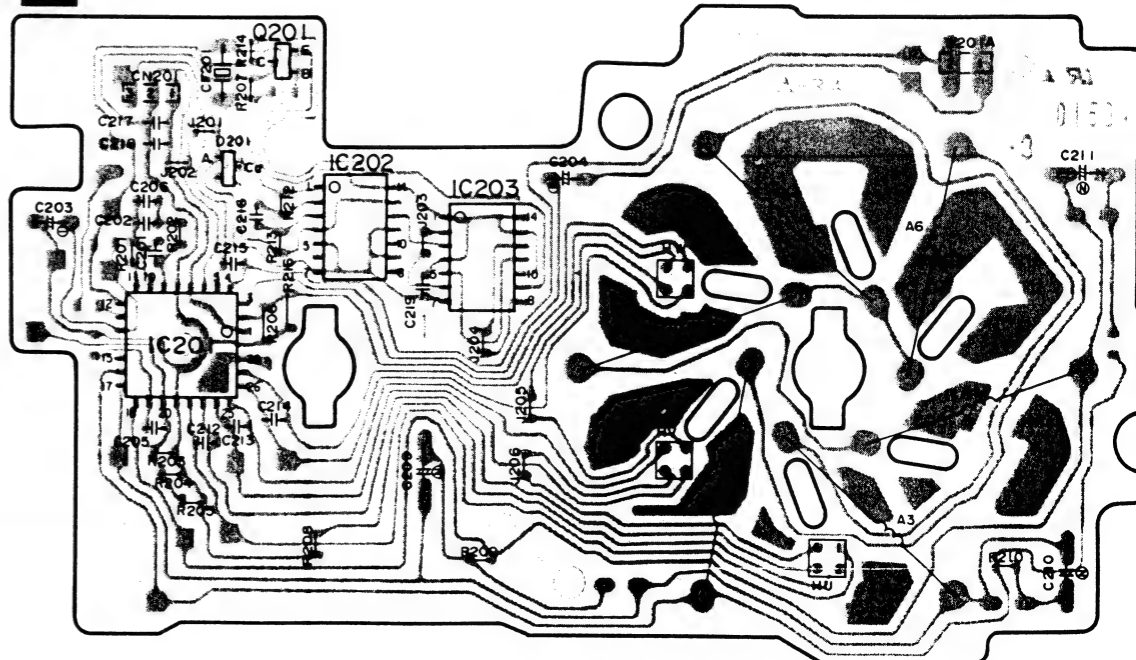
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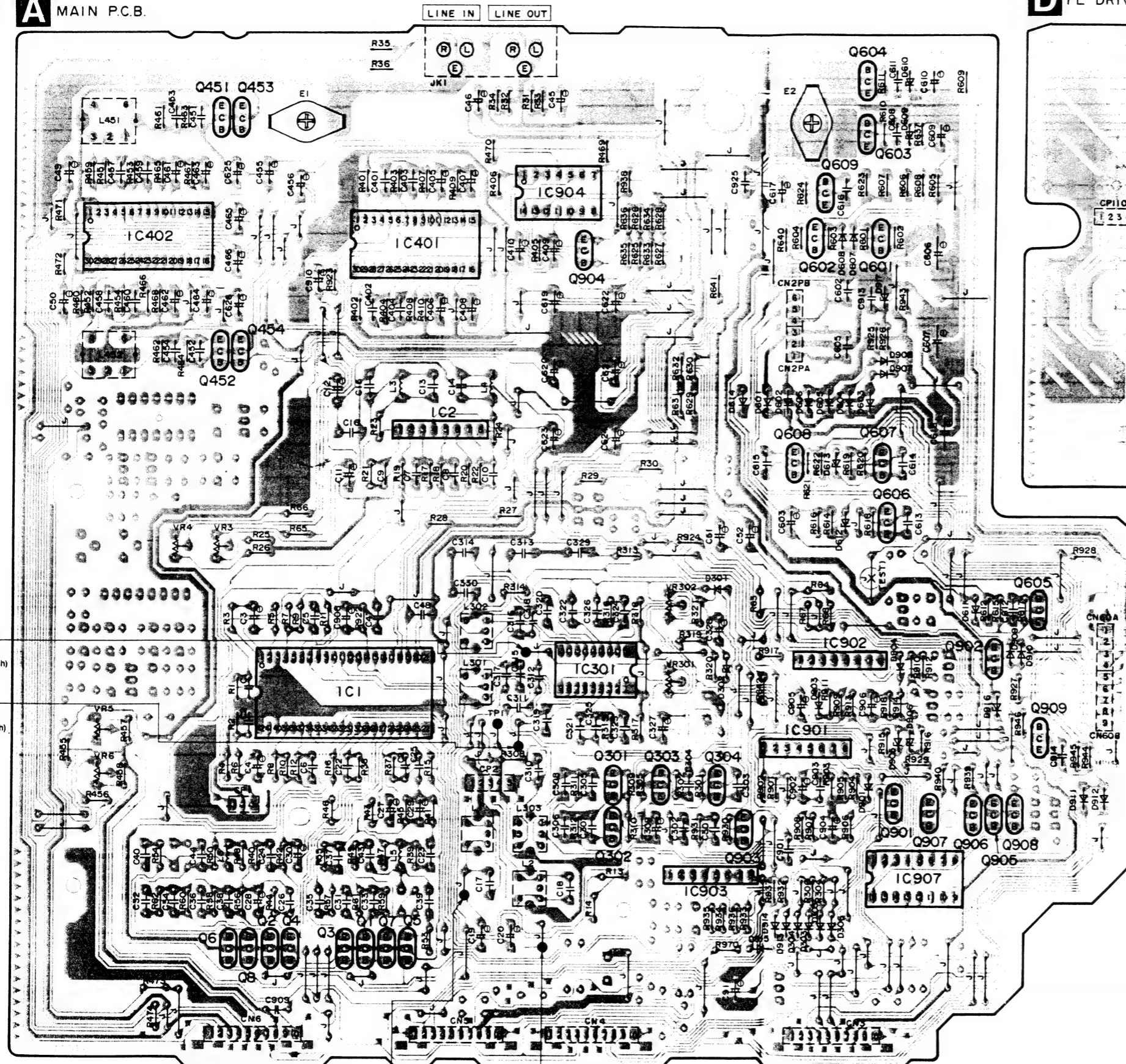
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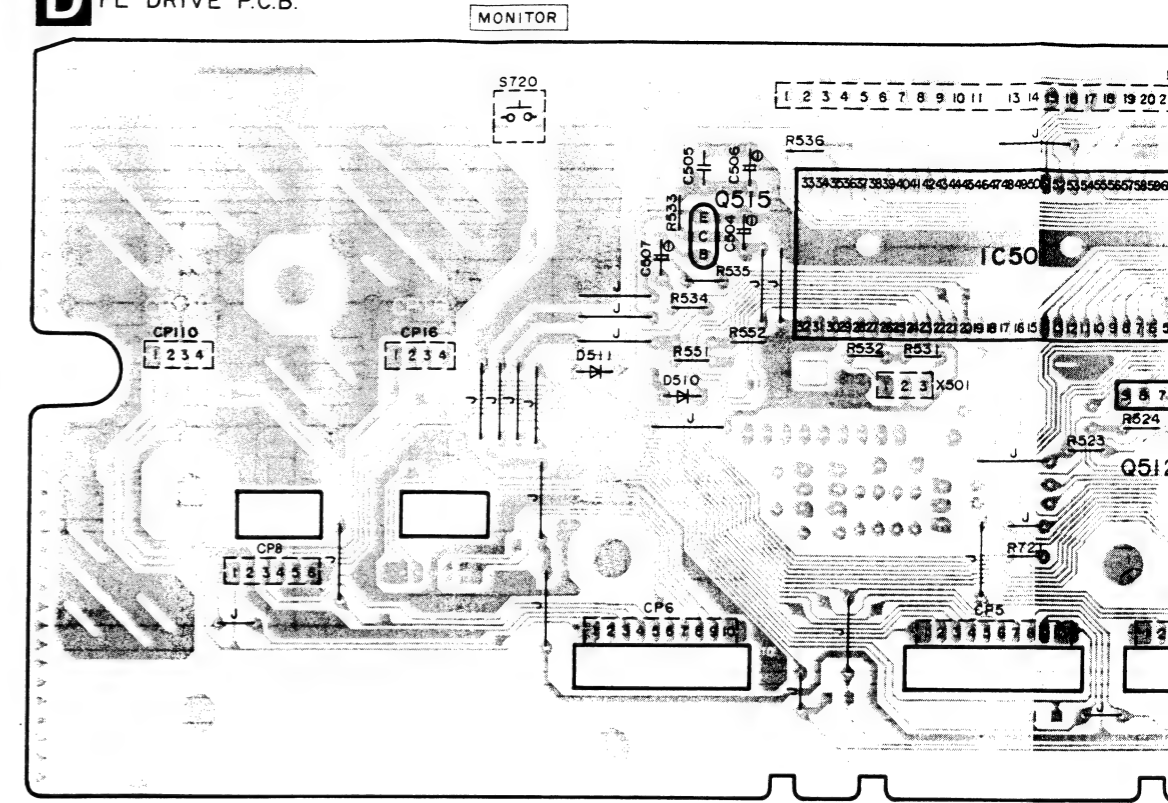
**C** POWER SWITCH P.C.B.**H** MOTOR P.C.B.**F** OPERATION P.C.B.**E** REC LEVEL P.C.B.**G** MECHANISM P.C.B.**J** FG P.C.B.**I** CAPSTAN MOTOR (D.D.) P.C.B.

PRINTED CIRCUIT BOARDS

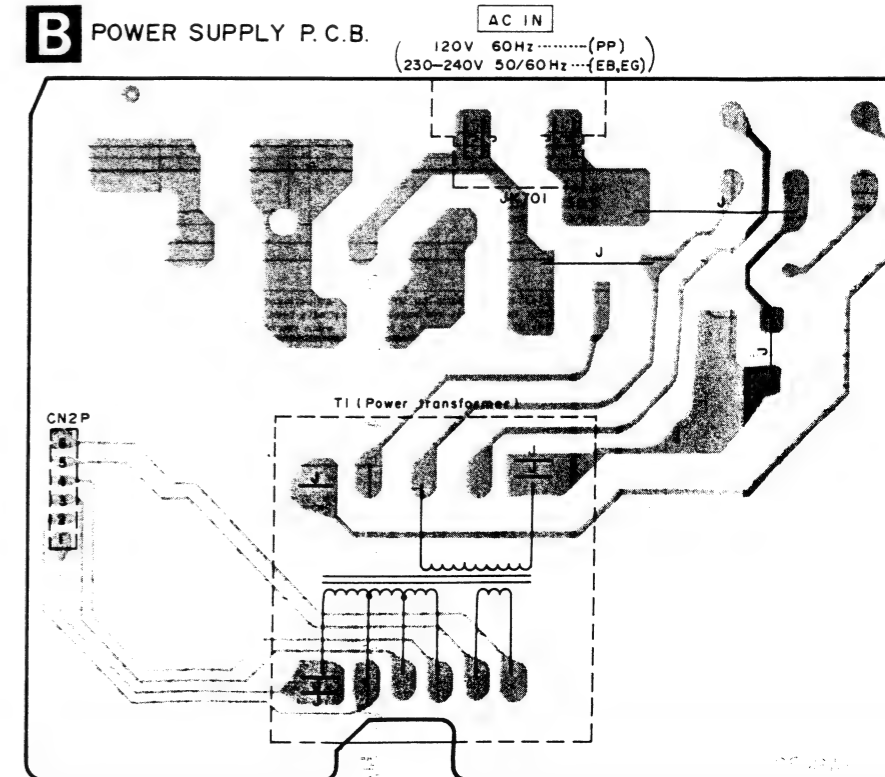
A MAIN P.C.B.

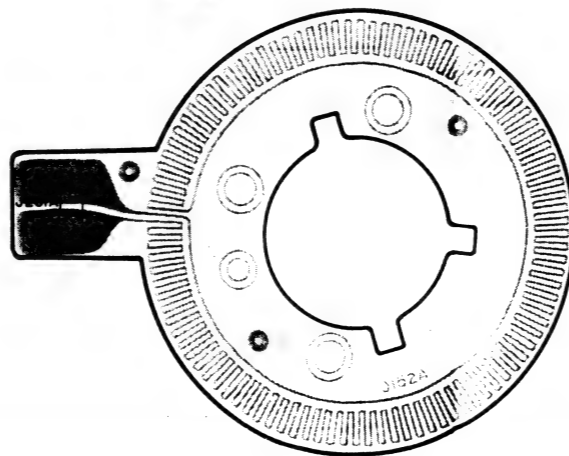


D FL DRIVE P.C.B.



B POWER SUPPLY P.C.B.





SCHEMATIC DIAGRAM (Parts list on pages 32~35.)

(This schematic diagram may be modified at any time with development of new technology.)

Notes:

- S701 : Stop switch (■ STOP).
- S702 : Fast-forward switch (TPS ►►).
- S703 : Rewind switch (◄◄ TPS).
- S704 : Playback switch (► PLAY).
- S705 : Record switch (● REC).
- S706 : Pause switch (■ PAUSE).
- S707 : Dolby noise-reduction switch (Dolby NR; C).
- S708 : Dolby noise-reduction switch (Dolby NR; B).
- S709 : Multiplex filter switch (MPX FILTER).
- S710 : Counter reset switch (COUNTER RESET).
- S711 : Counter mode switch (COUNTER MODE).
- S712 : Meter-range selector switch (METER RANGE).
- S713 : Memory mode switch (MEMORY REPEAT/STOP).
- S715 : Automatic-record-muting switch (● AUTO REC MUTE).
- S716 : Timer switch in "off" position (□ TIMER).
- S719 : Power switch in "on" position (PP area: POWER/■ OFF ■ ON, Others areas: POWER/■ standby ○ ■ ON).
- S720 : Monitor switch (MONITOR).
- S971 : Mode switch in "off" position.
- S972 : Cassette half detection switch in "off" position.
- S973 : ATS (CrO₂) switch in "off" position.
- S975 : Rec. inhibit switch in "off" position.
- S976 : ATS (Metal) switch in "off" position.
- Resistance are in ohms (Ω), 1/4 watt unless specified otherwise.
1K=1,000 (Ω), 1M=1,000k (Ω)
- Capacity are in micro-farads (μF) unless specified otherwise.
- All voltage values shown in circuitry are under no signal condition and playback mode with volume control at minimum position otherwise specified.
- ().....Voltage values at record mode.
- For measurement us EVM.
- Important safety notice
Components identified by Δ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts
- (————< + B >————) indicates + B (bias).
- (————< - B >————) indicates - B (bias).
- (————>) indicates the flow of the playback signal.
- (————>) indicates the flow of the record signal.
- The supply part number is described alone in the replacement parts list.

Ref. No.	Production Part No.	Supply Part No.
IC2, 701, 702, 901, 902, 903	M5218AL	M5218L
IC203	SN74LS74AMEL	SN74LS74AM

*** Caution !**

- IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair.
- Cover the parts boxes made of plastics with aluminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the legs of IC or LSI with the fingers directly.

A

B

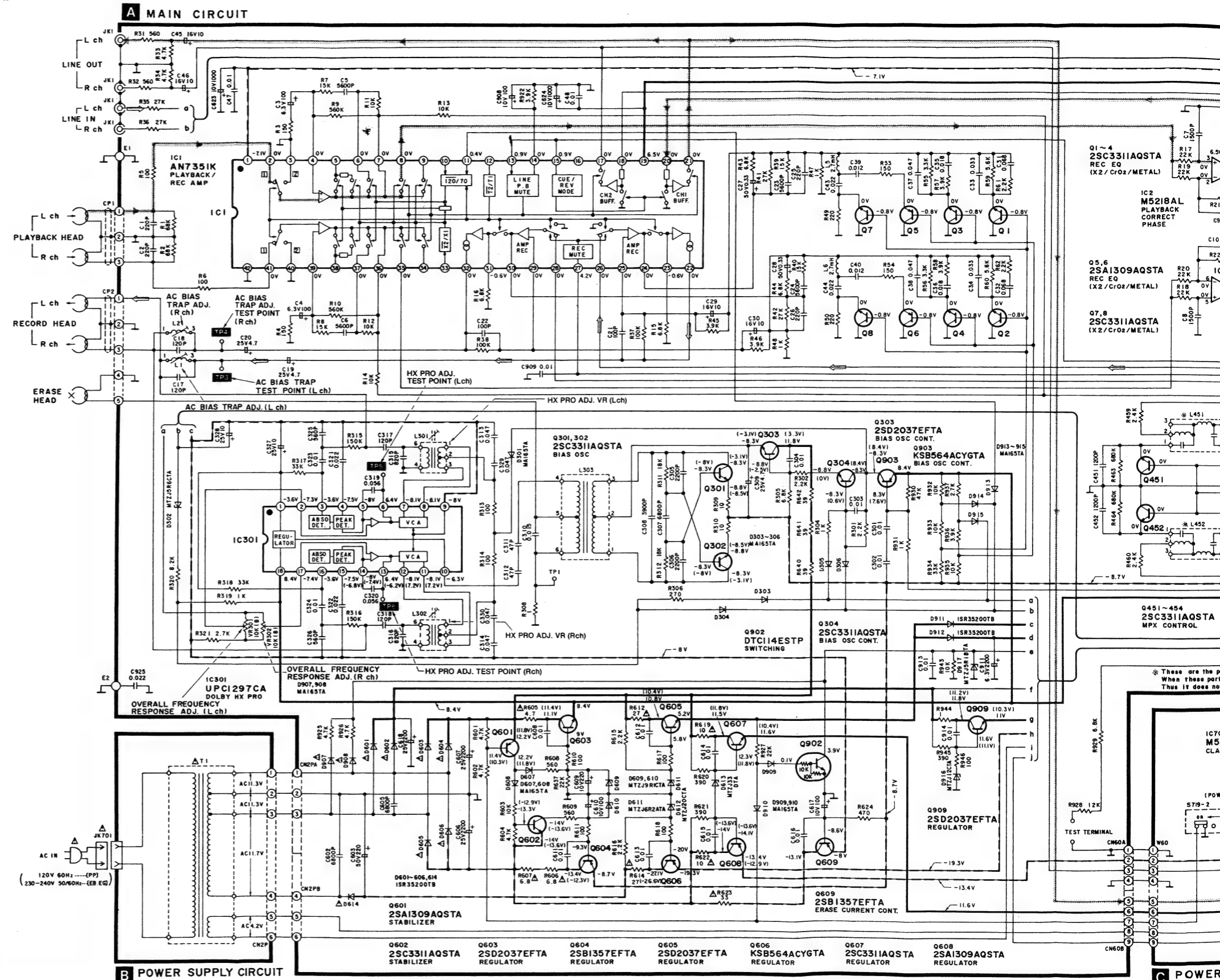
C

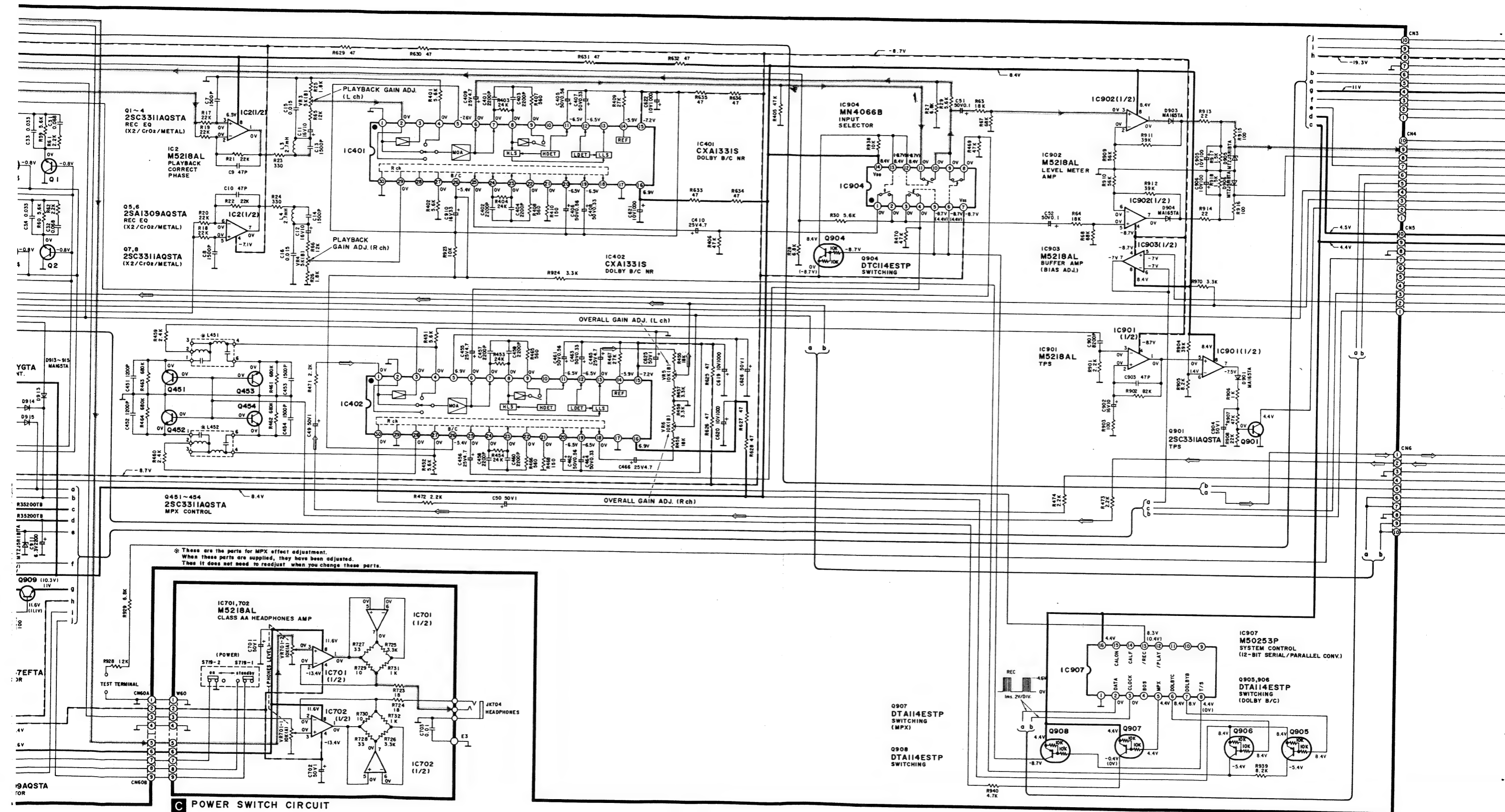
D

E

F

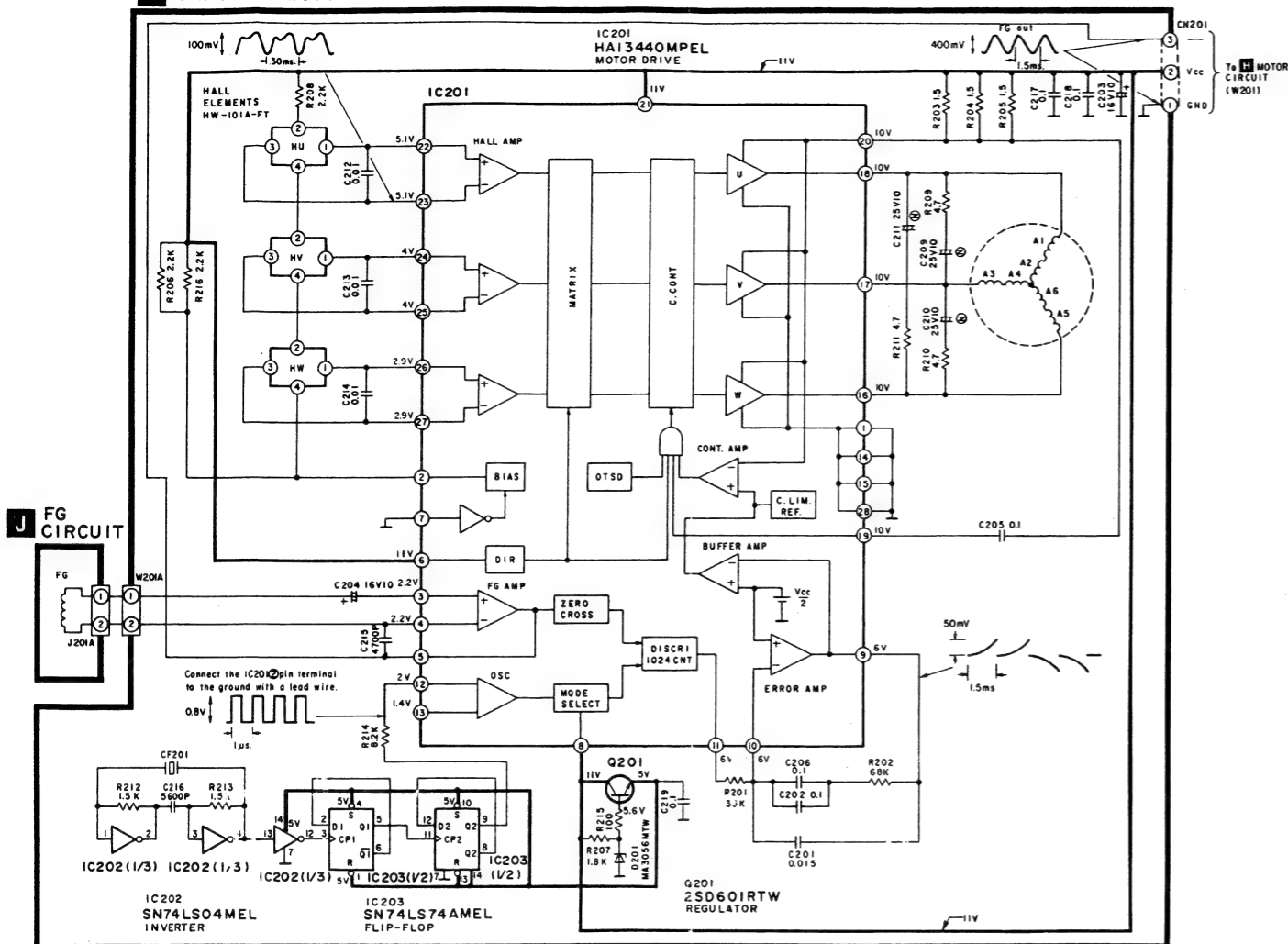
G



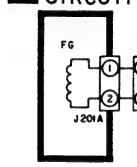


C POWER SWITCH CIRCUIT

I CAPSTAN MOTOR (D.D.) CIRCUIT



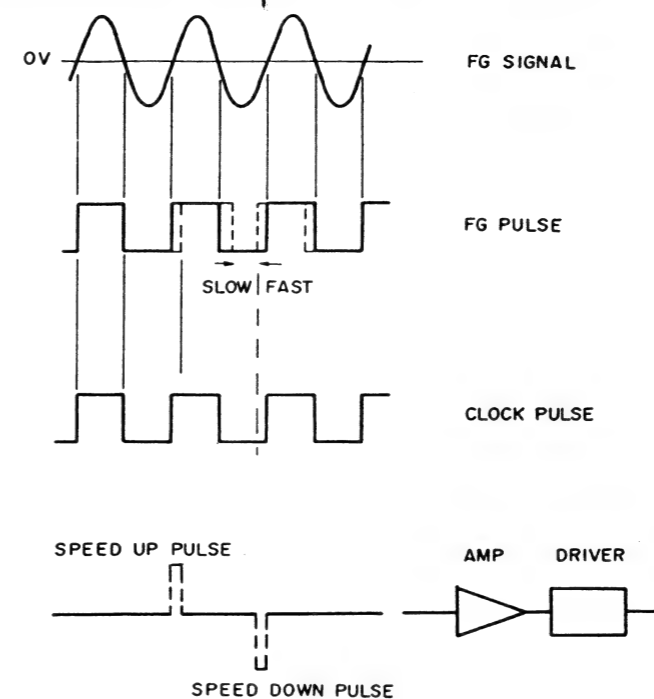
J FG CIRCUIT



TROUBLESHOOTING OF DIRECT DRIVE MOTOR

• OUTLINE OF THE DIRECT DRIVE MOTOR SYSTEM

The capstan motor is actuated by the DD motor digital servo system. The FG pulse is generated after the detection of the zero crosspoint, and the reference signal generated from the quartz oscillator is compared with this FG pulse. From this comparison, the accelerated and reduced speed pulses are generated, causing the driving coil to function.



• TROUBLESHOOTING OF DIRECT DRIVE MOTOR

Problem	Possible Cause	Check Points
1. The motor does not rotate.	1. No power supply (+12V). 2. The Hall element has failed (Current does not flow). 3. The ceramic (or crystal) does not oscillate.	• Check the voltage applied to the connector. • Check the DC potential on IC201 pins ②~⑦. *Check the waveform of IC201 pin ③.
2. The motor does not rotate properly. (When pressed, it stops at certain angles. Sometimes it does not rotate even if power is ON.)	1. The coil is broken or not properly soldered. 2. Output of the Hall element is not proper.	*Check the conductance of the coil. If normal, the resistances between IC201 pins ③~⑦, ⑦~③, ③~③ will reach 20 ohms. • Check the waveform of IC201 pins ②~⑦.
3. The motor is out of control.	1. The FG coil is broken.	• Check the waveform of IC201 pin ③. • Check if the FG coil is broken.
4. Abnormal wow.	1. Same as those described for problem 2.	

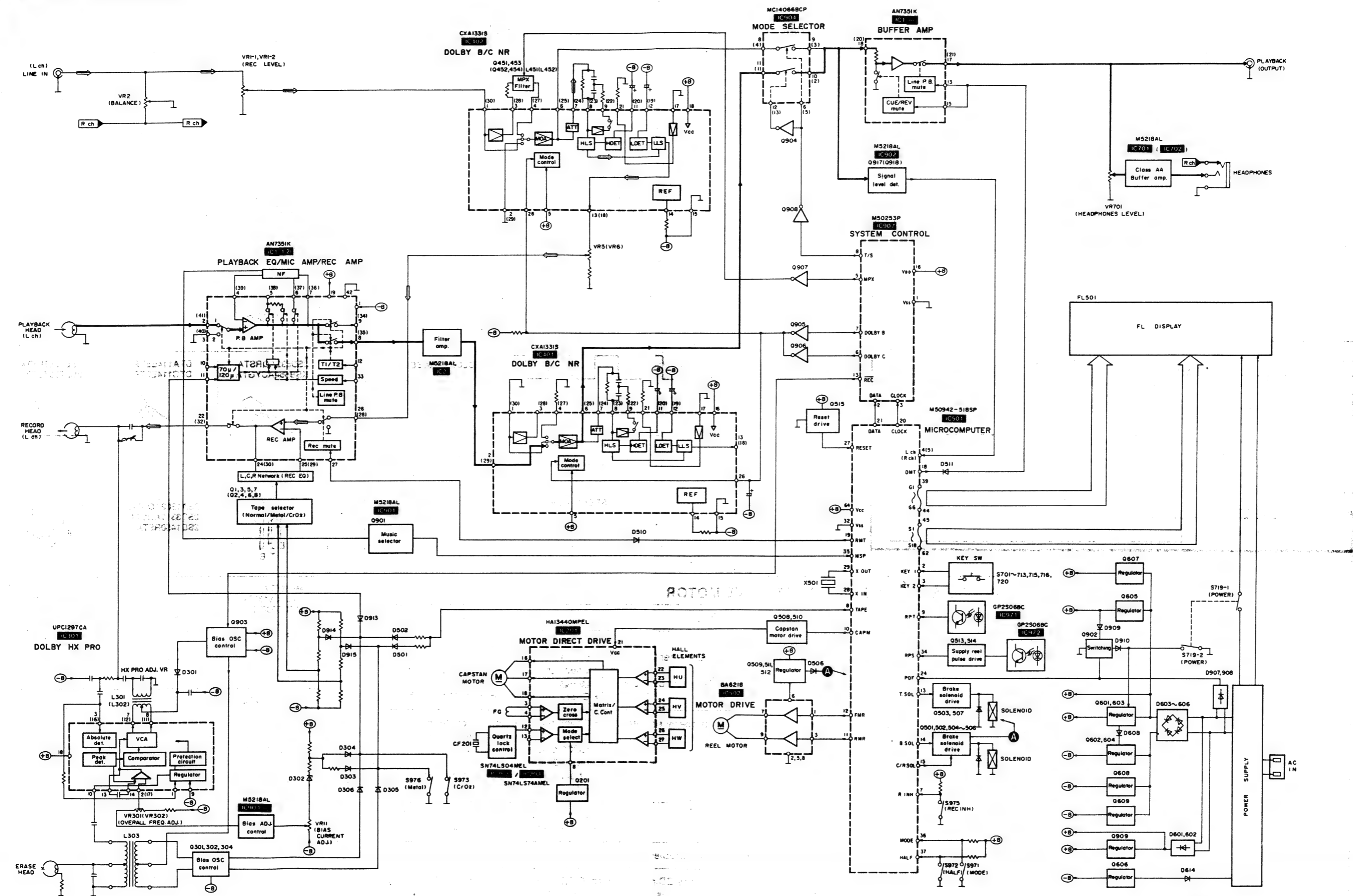
Note: Check the points marked with an asterisk (*) by removing the DD motor control P.C.B. and then connecting IC201 pin ② to GND with a lead wire. (After the DD motor control P.C.B. is removed, current will start flowing through the coil, heating the IC.)

TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

SN74LS04MEL 14 Pin SN74LS74MEL 14 Pin 	HA13440MPEL 	AN7351K
M50253P 16 Pin M50942-518SP 64 Pin 		MN4066B 14 Pin UPC1297CA 18 Pin CXA1331S 30 Pin
M5218AL 	BA6218 	GP2S06BC
2SD592AQRSTA KSB564ACYGTA 	DTA114ESTP DTC114ESTP 	2SB1357EFTA 2SD2037EFTA
	2SA1309AQSTA 2SC3311AQSTA 2SD1450RSTA 	2SD601RTW
MA165TA RVD1SS133TA 1SR35200TB 		MTZJ5R1BTA MTZJ5R6CTA MTZJ6R2ATA MTZJ9R1CTA MTZJ12CTA MTZJ20CTA MTZJ33DTA
MA3056-MTX 		

BLOCK DIAGRAM

INTE



Notes:
 • Playback signal
 • Recording signal

• Anod

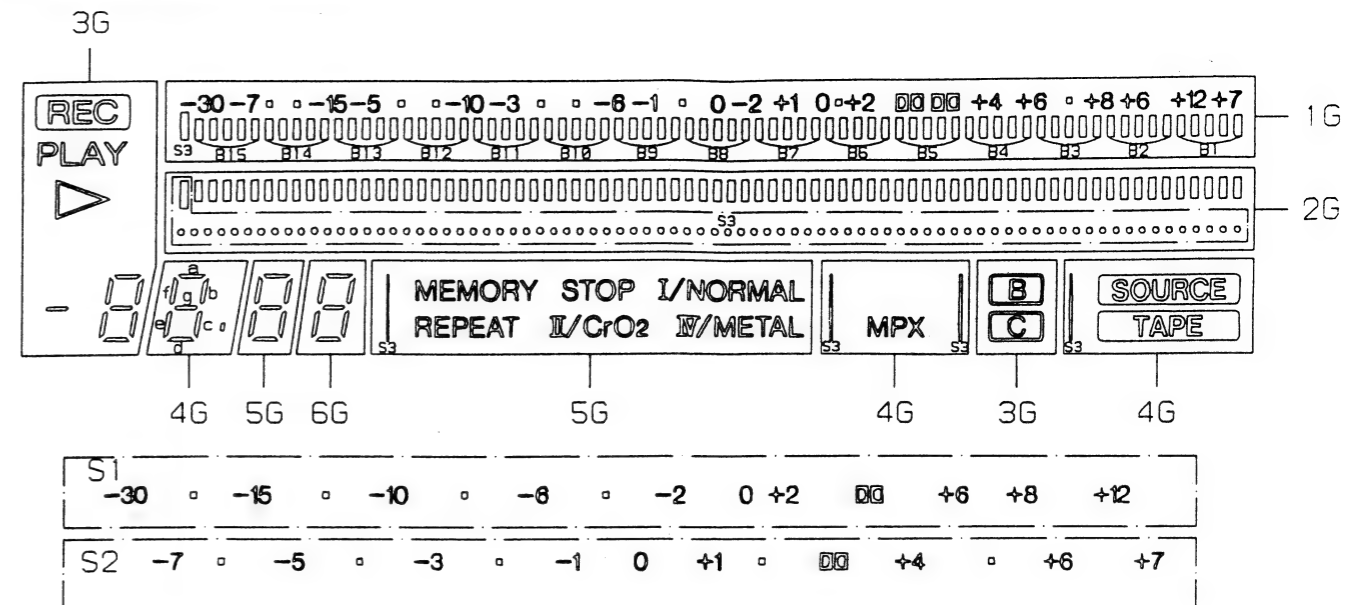
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
P18
P19

INTERNAL CONNECTION OF FL

Anode connection table

	1G	2G	3G	4G	5G	6G
P1	S1	-	REC	-	-	-
P2	S2	-	PLAY	-	-	-
P3	-	-	▶	-	-	-
P4	B1	B1	-	-	-	-
P5	B2	B2	-	-	MEMORY	-
P6	B3	B3	-	-	REPEAT	-
P7	B4	B4	-	TAPE	STOP	-
P8	B5	B5	B	SOURCE	-	-
P9	B6	B6	C	-	I/NORMAL	-
P10	B7	B7	-	MPX	I/CrO ₂	-
P11	B8	B8	—	▯	II/METAL	-
P12	B9	B9	a	a	a	a
P13	B10	B10	b	b	b	b
P14	B11	B11	f	f	f	f
P15	B12	B12	g	g	g	g
P16	B13	B13	c	c	c	c
P17	B14	B14	e	e	e	e
P18	B15	B15	d	d	d	d
P19	S3	S3	-	S3	S3	-

Grid connection diagram

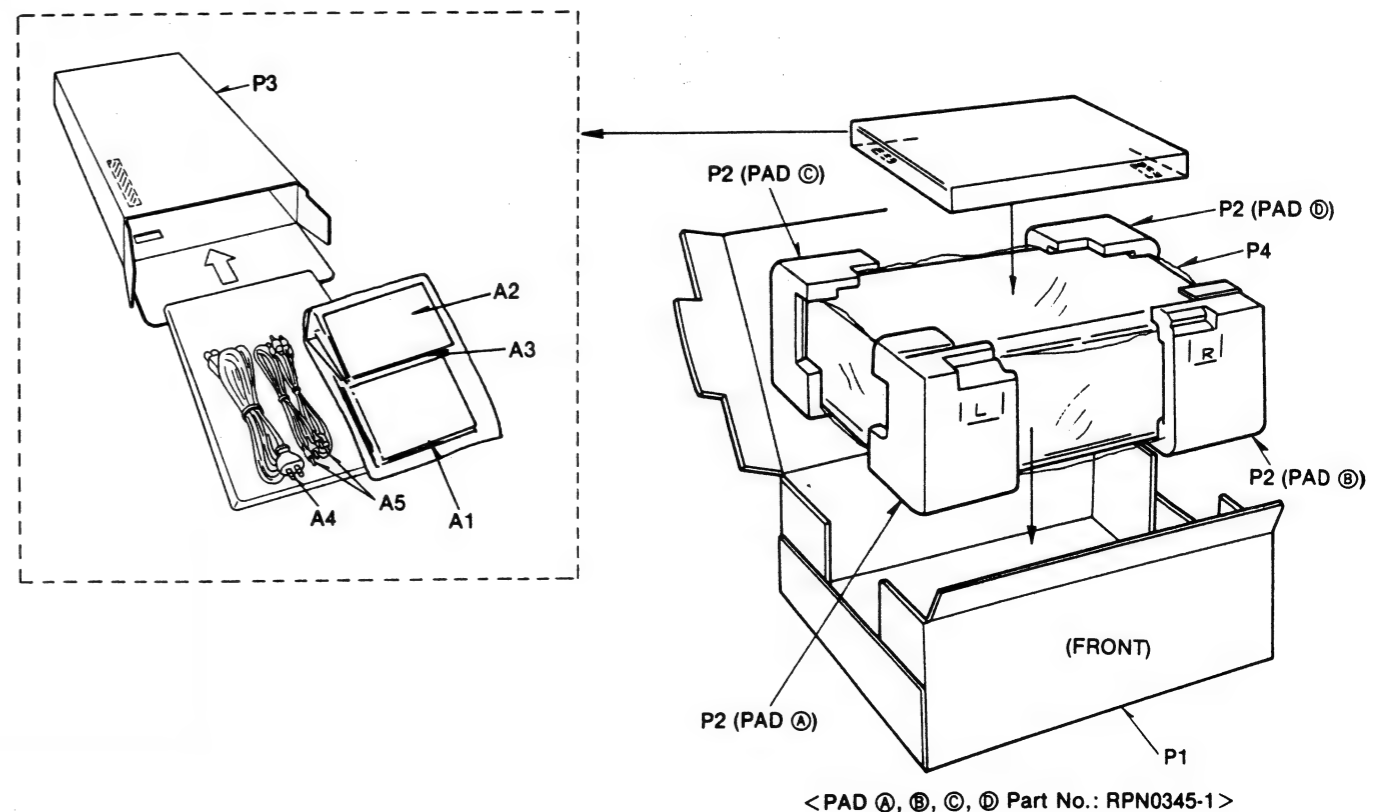


Pin connection

PIN NO.	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	F	F	N	N	N	N	N	N	N	N	N	N	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	6	5	4	3	2	1	P	N	N	F	F	
	2	2	P	P	C	C	C	C	C	C	C	C	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	C	G	G	G	G	G	19	P	P	1	1	

- 1) F1, F2..... Filament
 2) NP..... No pin
 3) NC..... No connection
 4) 1G~6G..... Grid

PACKING

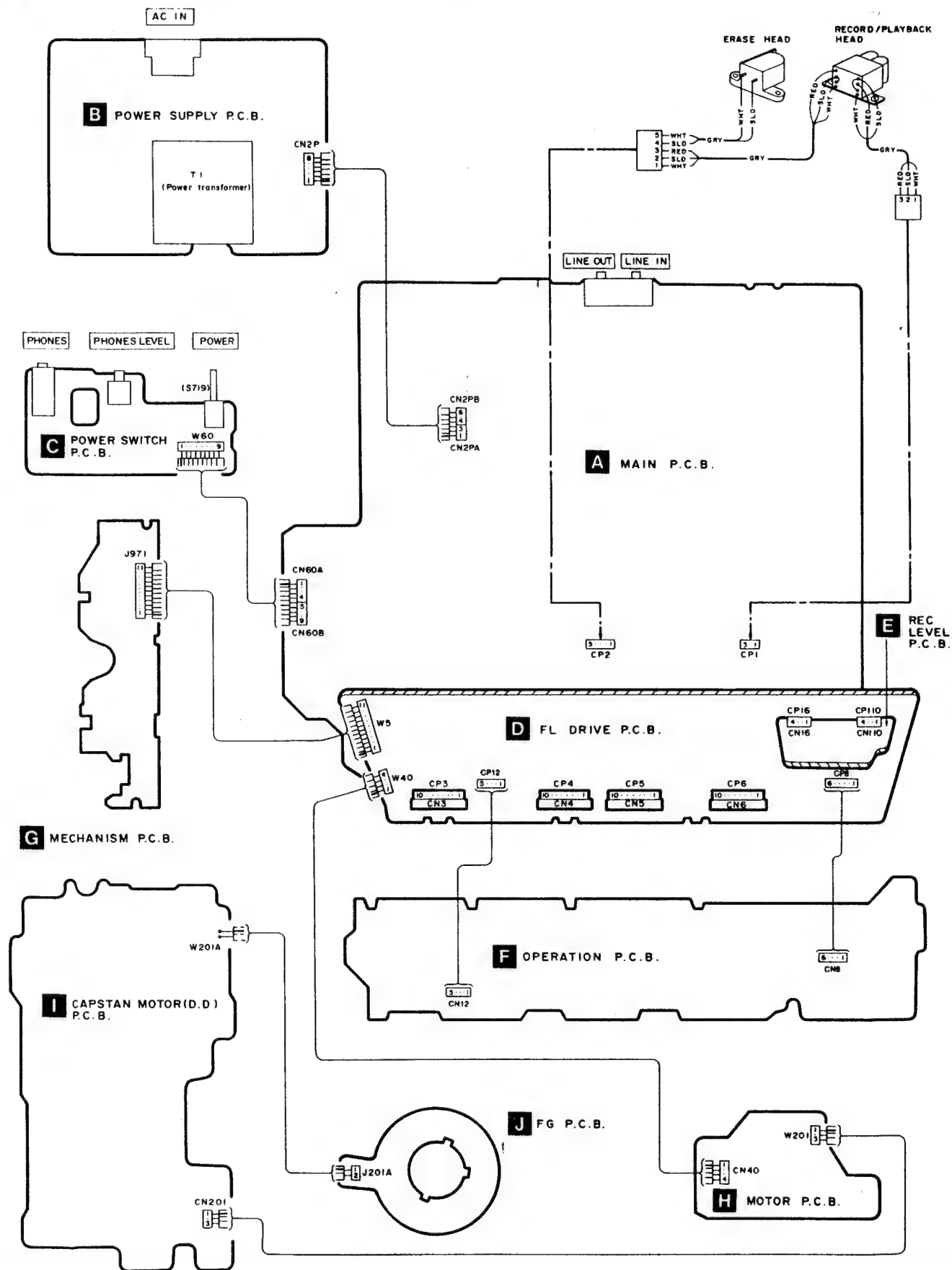
PLAYBACK
(OUTPUT)

ONES

AC IN

ayback signal
ecording signal

WIRING CONNECTION DIAGRAM



REPLACEMENT PARTS LIST

Notes : • Important safety notice:

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

• The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)		Q608	2SA1309A-R	TRANSISTOR	
				Q609	2SB1357EFTA	TRANSISTOR	
IC1	AN7351K	PLAYBACK/REC AMP		Q901	2SC3311A-Q	TRANSISTOR	
IC2	M5218L	PLAYBACK CORRECT PHASE		Q902	DTC114ESTP	TRANSISTOR	
IC201	HA13440MPEL	MOTOR DRIVE		Q903	KSB564ACYGTA	TRANSISTOR	
IC202	SN74LS04MEL	INVERTER		Q904	DTC114ESTP	TRANSISTOR	
IC203	SN74LS74AM	FLIP-FLOP		Q905-908	DTA114ESTP	TRANSISTOR	
IC301	UPC1297CA	DOLBY HX PRO		Q909	2SD2037EFTA	TRANSISTOR	
IC401, 402	CXA1331S	DOLBY B/C NR				DIODE(S)	
IC501	M50942-518SP	MICROCOMPUTER					
IC502	BA6218	REEL MOTOR DRIVE		D201	MA3056-MTX	DIODE	
IC701, 702	M5218L	Class AA:H.P. AMP		D301	MA165	DIODE	
IC901	M5218L	TPS		D302	MTZJ5R6CTA	DIODE	
IC902	M5218L	LEVEL METER AMP		D303-306	MA165	DIODE	
IC903	M5218L	BUFFER AMP		D501-503	MA165	DIODE	
IC904	MN4066B	INPUT SELECTOR		D504	MTZJ5R6CTA	DIODE	
IC907	M50253P	SYSTEM CONTROL		D505	MTZJ9R1CTA	DIODE	
IC971, 972	GP2S06BC	PHOTO COUPLER		D506, 507	MA165	DIODE	
		TRANSISTOR(S)		D510, 511	1SR35200TB	DIODE	
				D601-606	1SR35200TB	DIODE	Δ
Q1-4	2SC3311A-Q	TRANSISTOR		D607, 608	MA165	DIODE	
Q5, 6	2SA1309A-R	TRANSISTOR		D609, 610	MTZJ9R1CTA	DIODE	
Q7, 8	2SC3311A-Q	TRANSISTOR		D611	MTZJ6R2ATA	DIODE	
Q201	2SD601R	TRANSISTOR		D612	MTZJ20CTA	DIODE	
Q301, 302	2SC3311A-Q	TRANSISTOR		D613	MTZJ33DCTA	DIODE	
Q303	2SD2037EFTA	TRANSISTOR		D614	1SR35200TB	DIODE	Δ
Q304	2SC3311A-Q	TRANSISTOR		D901	MA165	DIODE	
Q451-454	2SC3311A-Q	TRANSISTOR		D903, 904	MA165	DIODE	
Q501-503	DTC114ESTP	TRANSISTOR		D905, 906	MTZJ5R1BTA	DIODE	
Q504	2SC3311A-Q	TRANSISTOR		D907, 908	MA165	DIODE	Δ
Q505-507	KSB564ACYGTA	TRANSISTOR		D909, 910	MA165	DIODE	
Q508, 509	DTC114ESTP	TRANSISTOR		D911, 912	1SR35200TB	DIODE	
Q510	KSB564ACYGTA	TRANSISTOR		D913-915	MA165	DIODE	
Q511	2SD592ANCQ	TRANSISTOR		D916	MTZJ12CTA	DIODE	
Q512	2SD1450RSTA	TRANSISTOR		D917	MTZJ5R1BTA	DIODE	
Q513	2SC3311A-Q	TRANSISTOR		D971, 972	RVD1SS133TA	DIODE	
Q514	DTC114ESTP	TRANSISTOR				VARIABLE RESISTOR(S)	
Q515	2SC3311A-Q	TRANSISTOR					
Q601	2SA1309A-R	TRANSISTOR		VR1	EWGEPAD24A54	REC. LEVEL CONTROL	
Q602	2SC3311A-Q	TRANSISTOR		VR2	EVJ02SFA5G15	BALANCE CONTROL	
Q603	2SD2037EFTA	TRANSISTOR		VR3, 4	EVNDXAA00B53	PLAYBACK GAIN ADJ.	
Q604	2SB1357EFTA	TRANSISTOR		VR5, 6	EVNDXAA00B14	OVERALL GAIN ADJ.	
Q605	2SD2037EFTA	TRANSISTOR		VR11	EVJ02KFA5B53	BIAS CURRENT ADJ.	
Q606	KSB564ACYGTA	TRANSISTOR		VR301, 302	EVNDXAA00B14	OVERALL FREQ. ADJ.	
Q607	2SC3311A-Q	TRANSISTOR		VR701	EVU57A064A14	HEADPHONES CONTROL	

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		COIL (S)		CN2P	SJT30643-V	CONNECTOR (6P)	
				CN2PA	RJS1A1703	CONNECTOR (3P)	
L1, 2	RLZ0003	COIL (AC BIAS TRAP ADJ.)		CN2PB	RJS1A1703	CONNECTOR (3P)	
L3-6	SLQX272-1YT	COIL		CN3-6	RJU003K010M1	SOCKET (10P)	
L301, 302	SL09B1-Z	COIL (HX PRO ADJ.)		CN8	SJS50681BB	SOCKET (6P)	
L303	SL09B4-K	COIL		CN12	SJS50581BB	SOCKET (5P)	
L451, 452	QLM9210K	COIL		CN16	RJU057W004	SOCKET (4P)	
		TRANSFORMER (S)		CN40	RJS4T72A	CONNECTOR (4P)	
				CN60A	RJS1A1704	CONNECTOR (4P)	
T1	RTP1K4C008-V	POWER TRANSFORMER	(PP) Δ	CN60B	RJS1A1705	CONNECTOR (5P)	
T1	RTP1K4E014-V	POWER TRANSFORMER	(EB, EG) Δ	CN110	RJU057W004	SOCKET (4P)	
		OSILLATOR (S)		CN201	RJS3T42A	CONNECTOR (3P)	
				CP1	RJP3G182A	CONNECTOR (3P)	
CF201	RSXA3M74S01	CRYSTAL OSILLATOR		CP2	RJP5G182A	CONNECTOR (5P)	
		FILTER (S)		CP3-6	RJT003K010M1	CONNECTOR (10P)	
				CP8	SJT30648BB1	CONNECTOR (6P)	
X501	EF0GC4004A4	CERAMIC FILTER (4MHz)		CP12	SJT30548BB1	CONNECTOR (5P)	
		DISPLAY TUBE (S)		CP16	RJT057W004	CONNECTOR (4P)	
				CP110	RJT057W004	CONNECTOR (4P)	
FL501	RSL0104-F	DISPLAY TUBE				JACK (S)	
		SWITCH (ES)					
				JK1	SJF3069N	TERMINAL BOARD	
S701	EVQ21405R	STOP		JK701	SJSD16	AC INLET	(PP) Δ
S702	EVQ21405R	FF		JK701	SJS9236	AC INLET	(EB, EG) Δ
S703	EVQ21405R	REW		JK704	SJJD19	JACK, HEADPHONES	
S704	EVQ21405R	PLAY				FLAT CABLE (S)	
S705	EVQ21405R	REC					
S706	EVQ21405R	PAUSE		W2P	RWJ1806110QQ	FLAT CABLE (6P)	
S707	EVQ21405R	DOLBY NR C		W5	RWJ0211220KQ	FLAT CABLE (11P)	
S708	EVQ21405R	DOLBY NR B		W40	RWJ0204180KQ	FLAT CABLE (4P)	
S709	EVQ21405R	MPX FILTER		W60	RWJ1809260KQ	FLAT CABLE (9P)	
S710	EVQ21405R	COUNTER RESET		W201	RWJ1803120KQ	FLAT CABLE (3P)	
S711	EVQ21405R	COUNTER MODE				GND PART (S)	
S712	EVQ21405R	METER RANGE					
S713	EVQ21405R	MEMORY (REPEAT/STOP)		E1, 2	SNE1004-1	GND PLATE	
S715	EVQ21405R	AUTO REC MUTE		E3	SUSD165	GND SPRING	
S716	SSS166	TIMER					
S719	SSH1238	POWER					
S720	EVQ21405R	MONITOR (SOURCE/TAPE)					
S971	RSH1A89ZB-U	MODE					
S972	RSH1A90YB-U	HALF					
S973	RSH1A90YB-U	ATS					
S975	RSH1A90YB-U	REC INHIBIT					
S976	RSH1A90YB-U	ATS					
		CONNECTOR (S) AND SOCKET (S)					

RESISTORS & CAPACITORS

Notes : • Capacity value are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
• Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM) . 1M=1,000k (OHM)

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
		RESISTORS						
R1, 2	ERDS2TJ683	1/4W 68K	R309, 310	ERDS2TJ100	1/4W 10	R527	ERDS2TJ562	1/4W 5.6K
R3, 4	ERDS2TJ151	1/4W 150	R311, 312	ERDS2TJ183T	1/4W 18K	R528	ERDS2TJ682T	1/4W 6.8K
R5, 6	ERDS2TJ101	1/4W 100	R313, 314	ERDS2TJ101	1/4W 100	R529, 530	ERDS2TJ103	1/4W 10K
R7, 8	ERDS2TJ153	1/4W 15K	R315, 316	ERDS2TJ154	1/4W 150K	R531	ERDS2TJ105T	1/4W 1M
R9, 10	ERDS2TJ564	1/4W 560K	R317, 318	ERDS2TJ333	1/4W 33K	R532	ERDS2TJ102	1/4W 1K
R11-14	ERDS2TJ103	1/4W 10K	R319	ERDS2TJ102	1/4W 1K	R533	ERDS2TJ103	1/4W 10K
R15, 16	ERDS2TJ682T	1/4W 6.8K	R320	ERDS2TJ822	1/4W 8.2K	R534	ERDS2TJ471	1/4W 470
R17-22	ERDS2TJ223	1/4W 22K	R321	ERDS2TJ272T	1/4W 2.7K	R535, 536	ERDS2TJ103	1/4W 10K
R23, 24	ERDS2TJ331	1/4W 330	R401, 402	ERDS2TJ562	1/4W 5.6K	R537, 538	ERDS2TJ472	1/4W 4.7K
R25, 26	ERDS2TJ182	1/4W 1.8K	R403, 404	ERDS2TJ243T	1/4W 24K	R539, 540	ERDS2TJ681	1/4W 680
R27, 28	ERDS2TJ682T	1/4W 6.8K	R405, 406	ERDS2TJ473	1/4W 47K	R544	ERDS2TJ331	1/4W 330
R29, 30	ERDS2TJ562	1/4W 5.6K	R407, 408	ERDS2TJ561	1/4W 560	R551, 552	ERDS2TJ103	1/4W 10K
R31, 32	ERDS2TJ561	1/4W 560	R409	ERDS2TJ273	1/4W 27K	R553	ERDS2TJ101	1/4W 100
R33, 34	ERDS2TJ472	1/4W 4.7K	R410	ERDS2TJ151	1/4W 150	R554, 555	ERDS2TJ100	1/4W 10
R35, 36	ERDS2TJ273	1/4W 27K	R451, 452	ERDS2TJ562	1/4W 5.6K	R601, 602	ERDS2TJ472	1/4W 4.7K
R37, 38	ERDS2TJ104	1/4W 100K	R453, 454	ERDS2TJ243T	1/4W 24K	R603	ERDS2TJ103	1/4W 10K
R39, 40	ERDS2TJ153	1/4W 15K	R455, 456	ERDS2TJ183T	1/4W 18K	R604	ERDS2TJ472	1/4W 4.7K
R41, 42	ERDS2TJ273	1/4W 27K	R457, 458	ERDS2TJ332	1/4W 3.3K	R605	ERD2FCVJ4R7T	1/4W 4.7 Δ
R43, 44	ERDS2TJ682T	1/4W 6.8K	R459, 460	ERDS2TJ242	1/4W 2.4K	R606, 607	ERD2FCVJ6R8T	1/4W 6.8 Δ
R45, 46	ERDS2TJ392T	1/4W 3.9K	R461-464	ERDS2TJ684	1/4W 680K	R608, 609	ERDS2TJ561	1/4W 560
R47, 48	ERDS2TJ102	1/4W 1K	R465, 466	ERDS2TJ561	1/4W 560	R610, 611	ERDS2TJ101	1/4W 100
R49, 50	ERDS2TJ221	1/4W 220	R467	ERDS2TJ273	1/4W 27K	R612	ERD2FCVG270T	1/4W 27 Δ
R53, 54	ERDS2TJ151	1/4W 150	R468	ERDS2TJ151	1/4W 150	R614	ERD2FCVG270T	1/4W 27 Δ
R55, 56	ERDS2TJ332	1/4W 3.3K	R469, 470	ERDS2TJ473	1/4W 47K	R615, 616	ERDS2TJ222	1/4W 2.2K
R57, 58	ERDS2TJ392T	1/4W 3.9K	R471-474	ERDS2TJ222	1/4W 2.2K	R617, 618	ERDS2TJ101	1/4W 100
R59, 60	ERDS2TJ562	1/4W 5.6K	R501	ERDS2TJ223	1/4W 22K	R619	ERD2FCVG100T	1/4W 10 Δ
R61, 62	ERDS2TJ222	1/4W 2.2K	R502	ERDS2TJ821	1/4W 820	R620, 621	ERDS2TJ391	1/4W 390
R63, 64	ERDS2TJ183T	1/4W 18K	R503	ERDS2TJ223	1/4W 22K	R622	ERD2FCVG100T	1/4W 10 Δ
R65, 66	ERDS2TJ123	1/4W 12K	R504	ERDS2TJ821	1/4W 820	R623	ERD2FCVG330T	1/4W 33 Δ
R67, 68	ERDS2TJ683	1/4W 68K	R505	ERG1SJ150E	1W 15	R624	ERDS2TJ471	1/4W 470
R201	ERJ6GEYJ333V	1/10W 33K	R506	ERG1SJ180E	1W 18	R625-636	ERDS2TJ470	1/4W 47
R202	ERJ6GEYJ683V	1/10W 68K	R507, 508	ERDS2TJ472	1/4W 4.7K	R637	ERDS2TJ223	1/4W 22K
R203-205	ERJ6GEYJ1R5V	1/10W 1.5	R509	ERDS2TJ223	1/4W 22K	R640-642	ERG1SJ390E	1W 39
R206	ERJ8GEYJ222V	1/8W 2.2K	R510	ERDS2TJ821	1/4W 820	R701	ERDS2TJ821	1/4W 820
R207	ERJ6GEYJ182V	1/10W 1.8K	R511	ERDS2TJ822	1/4W 8.2K	R702	ERDS2TJ102	1/4W 1K
R208	ERJ6GEYJ222V	1/10W 2.2K	R512	ERDS2TJ182	1/4W 1.8K	R703	ERDS2TJ122	1/4W 1.2K
R209-211	ERJ6GEYJ4R7V	1/10W 4.7	R513	ERDS2TJ682T	1/4W 6.8K	R704	ERDS2TJ152	1/4W 1.5K
R212, 213	ERJ6GEYJ152V	1/10W 1.5K	R514	ERDS2TJ152	1/4W 1.5K	R705	ERDS2TJ182	1/4W 1.8K
R214	ERJ6GEYJ822V	1/10W 8.2K	R515	ERDS2TJ332	1/4W 3.3K	R706	ERDS2TJ222	1/4W 2.2K
R215	ERJ6GEYJ101V	1/10W 100	R516	ERDS2TJ103	1/4W 10K	R707	ERDS2TJ332	1/4W 3.3K
R216	ERJ8GEYJ222V	1/8W 2.2K	R517	ERDS2TJ223	1/4W 22K	R708	ERDS2TJ472	1/4W 4.7K
R301, 302	ERDS2TJ222	1/4W 2.2K	R518	ERDS2TJ821	1/4W 820	R709	ERDS2TJ682T	1/4W 6.8K
R304	ERDS2TJ102	1/4W 1K	R519	ERDS2TJ103	1/4W 10K	R710	ERDS2TJ123	1/4W 12K
R305	ERDS2TJ682T	1/4W 6.8K	R520	ERDS2TJ102	1/4W 1K	R711	ERDS2TJ821	1/4W 820
R306	ERDS2TJ271	1/4W 270	R521, 522	ERDS1FVJ180T	1/2W 18 Δ	R712	ERDS2TJ102	1/4W 1K
R308	ERDS2TJ1R0	1/4W 1.0	R523	ERDS2TJ332	1/4W 3.3K	R713	ERDS2TJ122	1/4W 1.2K
			R524	ERDS2TJ222	1/4W 2.2K	R714	ERDS2TJ152	1/4W 1.5K
			R525	ERDS2TJ473	1/4W 47K	R715	ERDS2TJ182	1/4W 1.8K
			R526	ERDS2TJ223	1/4W 22K	R716	ERDS2TJ222	1/4W 2.2K

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
R717	ERDS2TJ332	1/4W 3.3K				C327, 328	ECEA1EK100	25V 10U
R718	ERDS2TJ472	1/4W 4.7K			CAPACITORS	C329, 330	ECKR1H473ZF5	50V 0.047U
R721	ERDS2TJ472	1/4W 4.7K				C401-404	ECQB1H222JF3	50V 2200P
R722	ERDS2TJ332	1/4W 3.3K	C1, 2	ECBT1H221KB5	50V 220P	C405, 406	ECEA1HUR56B	50V 0.56U
R723, 724	ERDS2TJ180T	1/4W 18	C3, 4	ECEA0JK101	6.3V 100U	C407, 408	ECEA1HUR33	50V 0.33U
R725, 726	ERDS2TJ332	1/4W 3.3K	C5, 6	ECQB1H562JF3	50V 5600P	C409, 410	ECEA1EK4R7	25V 4.7U
R727, 728	ERDS2TJ330	1/4W 33	C7, 8	ECQB1H152JF3	50V 1500P	C451, 452	ECKT1H122KB	50V 1200P
R729, 730	ERDS2TJ100	1/4W 10	C9, 10	ECBT1H470J5	50V 47P	C453, 454	ECKD1H152KB	50V 1500P
R731, 732	ERDS2TJ102	1/4W 1K	C11, 12	ECEA1CK100B	16V 10U	C455, 456	ECEA1EK4R7	25V 4.7U
R901	ERDS2TJ222	1/4W 2.2K	C13, 14	ECQB1H152JF3	50V 1500P	C457-460	ECQB1H222JF3	50V 2200P
R902	ERDS2TJ823T	1/4W 82K	C15, 16	ECQB1H153JF3	50V 0.015U	C461, 462	ECEA1HUR56B	50V 0.56U
R903	ERDS2TJ101	1/4W 100	C17, 18	ECQP1121J23	100V 120P	C463, 464	ECEA1HUR33	50V 0.33U
R904	ERDS2TJ393	1/4W 39K	C19, 20	ECEA1EK4R7	25V 4.7U	C465, 466	ECEA1EK4R7	25V 4.7U
R905	ERDS2TJ822	1/4W 8.2K	C21, 22	ECBT1H101KB5	50V 100P	C501	ECEA1HK010B	50V 1U
R906	ERDS2TJ102	1/4W 1K	C23, 24	ECQB1H562JF3	50V 5600P	C502	ECBT1E103ZF	25V 0.01U
R907	ERDS2TJ473	1/4W 47K	C25, 26	ECBT1H221KB5	50V 220P	C503	ECEA1CN100SB	16V 10U
R908	ERDS2TJ223	1/4W 22K	C27, 28	ECEA1HUR33	50V 0.33U	C504	ECEA1HK010B	50V 1U
R909, 910	ERDS2TJ563	1/4W 56K	C29, 30	ECEA1CK100B	16V 10U	C505	ECKR1H103ZF5	50V 0.01U
R911, 912	ERDS2TJ393	1/4W 39K	C31, 32	ECQV1H683J23	50V 0.068U	C506	ECEA0JU470B	6.3V 47U
R913, 914	ERDS2TJ220T	1/4W 22	C33, 34	ECQB1H333JF3	50V 0.033U	C507	ECEA1EK4R7	25V 4.7U
R915, 916	ERDS2TJ101	1/4W 100	C35, 36	ECQB1H183JF3	50V 0.018U	C508, 509	ECEA1VK100B	35V 10U
R917, 918	ERDS2TJ152	1/4W 1.5K	C37, 38	ECQV1H473J23	50V 0.047U	C602	ECKR2H682PE	500V 6800P
R922	ERDS2TJ392T	1/4W 3.9K	C39, 40	ECQB1H123JF3	50V 0.012U	C603	ECEA1HJ221B	50V 220U
R923	ERDS2TJ103	1/4W 10K	C43, 44	ECQB1H223JF3	50V 0.022U	C605	ECKR2H682PE	500V 6800P
R924	ERDS2TJ332	1/4W 3.3K	C45, 46	ECEA1CK100B	16V 10U	C606, 607	ECEA1EU222B	25V 2200U
R925, 926	ERDS2TJ472	1/4W 4.7K	C47, 48	ECKR1H103ZF5	50V 0.01U	C608	ECKR1H103ZF5	50V 0.01U
R927	ERDS2TJ223	1/4W 22K	C49, 50	ECEA1HK010B	50V 1U	C609	ECEA1AU221	10V 220U
R928	ERDS2TJ123	1/4W 12K	C51, 52	ECEA1HW0R1	50V 0.1U	C610	ECEA1AU101	10V 100U
R929	ERDS2TJ682T	1/4W 6.8K	C201	ECUV1E153KBN	25V 0.015U	C611-616	ECKR1H103ZF5	50V 0.01U
R930	ERDS2TJ473	1/4W 47K	C202	ECUV1E104KBN	25V 0.1U	C617	ECEA1AU101	10V 100U
R931	ERDS2TJ102	1/4W 1K	C203, 204	ECEV1CA100R	16V 10U	C618	ECEA1EU222B	25V 2200U
R932, 933	ERDS2TJ103	1/4W 10K	C205	ECUV1E104ZFN	25V 0.1U	C619-624	ECEA1AU102B	10V 1000U
R934	ERDS2TJ333	1/4W 33K	C206	ECUV1E104KBN	25V 0.1U	C625, 626	ECEA1HK010B	50V 1U
R935	ERDS2TJ103	1/4W 10K	C209-211	ECEV1EN100R	25V 10U	C701, 702	ECEA1HK010B	50V 1U
R936	ERDS2TJ392T	1/4W 3.9K	C212-214	ECUV1H103ZFN	50V 0.01U	C703	ECKR1H103ZF5	50V 0.01U
R937	ERDS2TJ272T	1/4W 2.7K	C215	ECUV1H472ZFN	50V 4700P	C901	ECQB1H822JF3	50V 8200P
R938	ERDS2TJ103	1/4W 10K	C216	ECUV1E562KBN	25V 5600P	C902	ECEA1CK100B	16V 10U
R939	ERDS2TJ822	1/4W 8.2K	C217-219	ECUV1E104ZFN	25V 0.1U	C903	ECBT1H470J5	50V 47P
R940	ERDS2TJ472	1/4W 4.7K	C301-304	ECKR1H103ZF5	50V 0.01U	C904	ECEA1HK010B	50V 1U
R943	ERDS2TJ103	1/4W 10K	C305, 306	ECKW1H222KB5	50V 2200P	C905, 906	ECEA1AU101	10V 100U
R944	ERDS2TJ180	1/4W 1.0	C307	ECKD1H682KB	50V 6800P	C908	ECEA1AK101	10V 100U
R945	ERDS2TJ391	1/4W 390	C308	ECKR1H392KB5	50V 3900P	C909	ECBT1E103ZF	25V 0.01U
R946	ERDS2TJ101	1/4W 100	C309	ECEA1EK4R7	25V 4.7U	C910	ECEA1CK330	16V 33U
R970	ERDS2TJ332	1/4W 3.3K	C310	ECQP1153JZ	100V 0.015U	C911	ECEA0JU222B	6.3V 2200U
R971	ERDS2TJ221	1/4W 220	C311, 312	ECBT1H470J5	50V 47P	C913, 914	ECKR1H103ZF5	50V 0.01U
R972	ERDS2TJ183T	1/4W 18K	C313, 314	ECKR1H473ZF5	50V 0.047U	C925	ECKT1H223ZF	50V 0.022U
R973	ERDS2TJ221	1/4W 220	C315, 316	ECKR2H821KB5	500V 820P			
R974	ERDS2TJ183T	1/4W 18K	C317, 318	ECBT1H121KB5	50V 120P			
			C319, 320	ECQV1H563JZ3	50V 0.056U			
		CHIP JUMPER(S)	C321, 322	ECQB1H223JF3	50V 0.022U			
			C323, 324	ECQB1H103JF3	50V 0.01U			
J201-206	ERJ6GEY0R00V	CHIP JUMPER	C325, 326	ECBT1H561KB5	50V 560P			

REPLACEMENT PARTS LIST

Notes : * Important safety notice:

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.) Parts without these indications can be used for all areas.

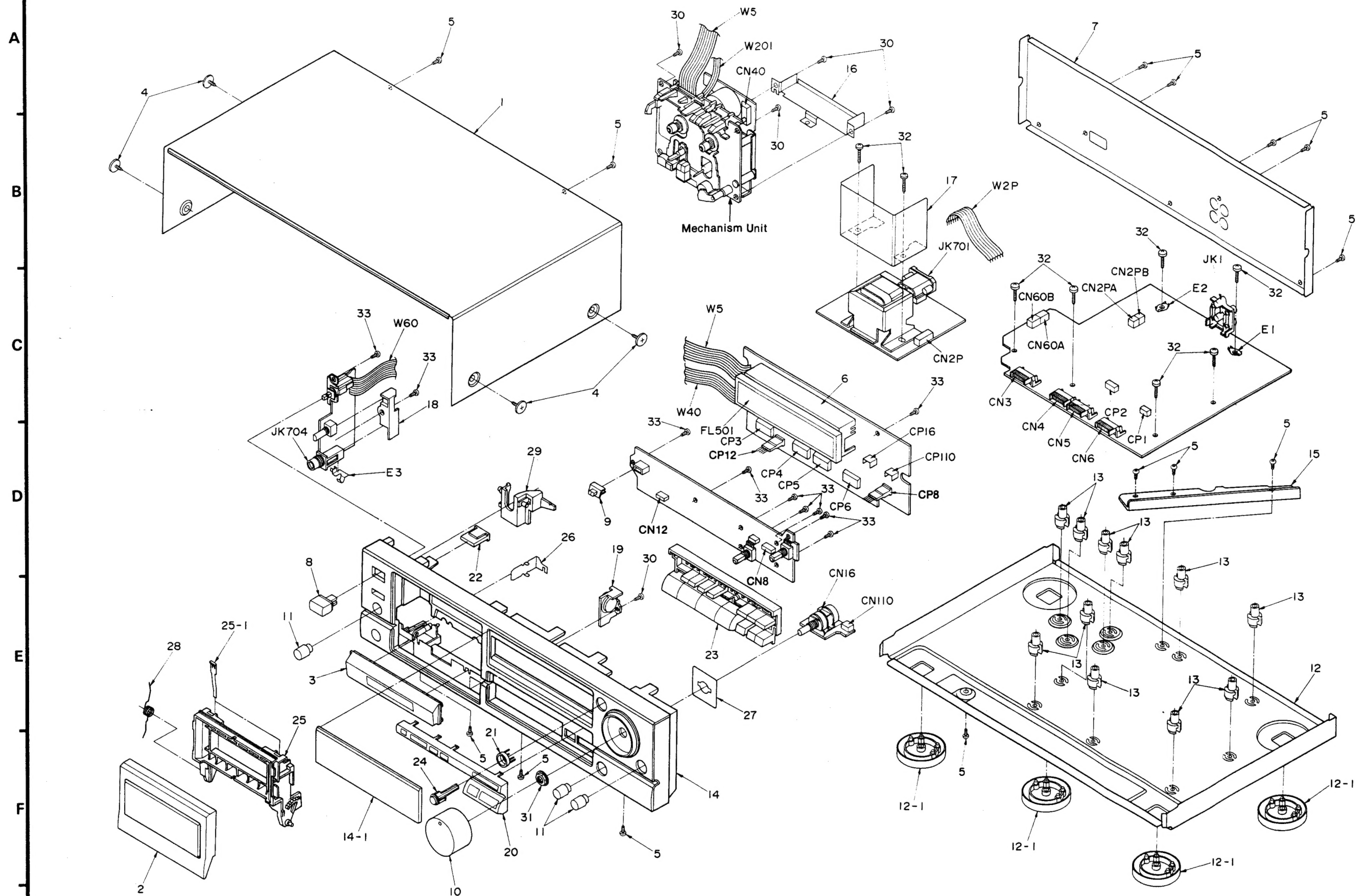
Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS		P2	RPN0345-1	PAD	
				P3	SPSD152	ACCESSORIES BOX	
				P4	SPP756	PROTECTION COVER	
1	RKMD036-K	CABINET				ACCESSORIES	
2	RYF0146A-K	CASSETTE LID					
3	RYQ0070-K	FRONT ORNAMENT					
4	SNE2129-1	SCREW					
5	XTBS3+8JFZ1	SCREW		A1	RFKSSBX606EG	INSTRUCTION MANUAL ASS'Y	(EG)
6	RMN0141	FL HOLDER		A1	RQT1187-B	INSTRUCTION MANUAL	(EB)
7	RGRO128A-B1	REAR PANEL	(EG)	A1	RQT1188-Y	INSTRUCTION MANUAL	(PP)
7	RGRO128A-C	REAR PANEL	(EB)	A2	RQAD013	WARRANTY CARD	(EB, EG)
7	RGRO128A-G	REAR PANEL	(PP)	A2	RQAD049	WARRANTY CARD	for CANADA
8	RGU0030	BUTTON, POWER SWITCH		A2	SQX7179	WARRANTY CARD	(PP)
9	RGV0080-K	KNOB, TIMER		A3	RQCB0169	SERVICENTER LIST	(EB, EG)
10	RGW0033	KNOB, REC LEVEL		A3	SQX9129-1	SERVICENTER LIST	(PP)
11	RGW0110-K	KNOB, BALANCE/BIAS/PHONES		A3	SQX9131	SERVICENTER LIST	for CANADA
12	RFKJSTR313PK	BOTTOM BOARD ASS'Y		A4	SFDAC05E03	AC POWER SUPPLY CORD	(EG) Δ
12-1	RKA0009-1	FOOT	Ref. No. 12-1 is included in Ref. No. 12.	A4	SJA175	AC POWER SUPPLY CORD	(PP) Δ
13	RKQ0089	P. C. B. HOLDER		A4	SJA193	AC POWER SUPPLY CORD	(EB) Δ
14	RFKGSBX606EB	FRONT PANEL ASS'Y	(EB, EG)	A5	SJP2249-3	STEREO CONNECTION CABLE	
14	RFKGSBX606PP	FRONT PANEL ASS'Y	(PP)				
14-1	RKWO171A-K	TRANSPARENT PLATE	Ref. No. 14-1 is included in Ref. No. 14.				
15	RMA0517	BRACKET, BOTTOM BOARD					
16	RMCO137	SHIELD PLATE, MECH UNIT					
17	RMCO139	SHIELD PLATE, P. TRANSFORMER					
18	RMN0140	ORNAMENT, HEADPHONES					
19	RFKNSDN7AK	DAMPER GEAR ASS'Y (L)					
20	RGK0405-K	ORNAMENT, OPERATION BUTTON					
21	RGK0407-A	ORNAMENT, MONITOR BUTTON					
22	RGU0130	BUTTON, EJECT					
23	RFKNSBX606EB	BUTTON ASS'Y, OPERATION					
24	RGU0620-K	BUTTON, MONITOR					
25	RKF0169A-K	CASSETTE HOLDER					
25-1	QBP2006A	TAPE PRESSURE SPRING	Ref. No. 25-1 is included in Ref. No. 25.				
26	RMA0535	HOLDER ANGLE					
27	RMCO056-1	SHIELD PLATE, REC LEVEL					
28	RME0092	SPRING					
29	RML0086	EJECT LEVER					
30	XTB3+10JFZ	SCREW					
31	SNE4021-1	NUT					
32	XTB3+20JFZ	SCREW					
33	XTB3+8JFZ	SCREW					
		PACKING MATERIAL					
P1	RPG0990	CARTON BOX	(EB, EG)				
P1	RPG0993	CARTON BOX	(PP)				

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		MECHANISM PARTS LIST		149	REX0093-2	LEAD WIRE BLOCK	
				150	XQN2+AF3	SCREW	
				151	RWJ0202090XX	FLAT CABLE (2P), W201A	
101	QH1361A	SCREW					
102	SJH96-1	E HEAD					
103	RHE5201ZA	SCREW					
104	RBR4CY009-C	R/P HEAD					
105	QBC1278A	HEAD SPRING					
106	RMX0014	SPACER					
107	RMRO184	HEAD SPACER					
108	XTN2+5F	SCREW					
109	REX0092-1	LEAD WIRE BLOCK					
110	RXR0009	REEL TABLE					
111	RJW139ZA	HEAD BASE SPRING					
112	RMA0047A-1	HEAD BASE					
113	RXQ0078	MAIN ROD ASS'Y					
114	RMMD012-2	EJECT ROD (L)					
115	RME0018-1	SPRING, EJECT ROD (L)					
116	RML0069-1	LEVER					
117	RME0020	BRAKE SPRING					
118	RML0040-2	BRAKE LEVER					
119	RJW142ZA	SPRING					
120	RXP0004	PINCH ROLLER ARM(F)					
120-1	RJW140ZC	SPRING, PINCH ROLLER ARM(F)					
121	RFKRSB555E-K	CHASSIS ASS'Y					
122	XTN26+7J	SCREW					
123	MMN-6F4RA88	REEL MOTOR					
124	XTN26+26F	SCREW					
125	RMA0048A	FLYWHEEL PLATE					
126	XTN2+3F	SCREW					
127	XSN26+3	SCREW					
128	RMRO141	THRUST BEARING					
129	RXG0009	IDLE GEAR ASS'Y					
130	RDG0034	REEL MOTOR GEAR					
131	RJB428ZE	MOVING IRON CORE					
132	RSJ0003	SOLENOID					
133	RXQ0011	BLAKE SOLENOID					
134	XTW2+8S	SCREW					
135	XTN26+4F	SCREW					
136	RDG0030	MAIN GEAR					
137	RXF0008	FLYWHEEL					
138	RML0037	TRIGGER LEVER					
139	RJW147ZA	TRIGGER LEVER SPRING					
140	RJS2T7ZA	CONNECTOR (2P), J201A					
141	RMQ0037	FG YOKE					
142	RXG0003	REEL TABLE GEAR					
143	RJQ112ZA	SPRING					
144	RUS609ZC	TAPE PRESSURE SPRING					
145	RJQ111ZB	SPRING					
146	RHE5204ZB	SCREW					
147	RJS11T7ZA	CONNECTOR (11P), J971					
148	REP0268C	STATER P. C. B. ASS'Y					

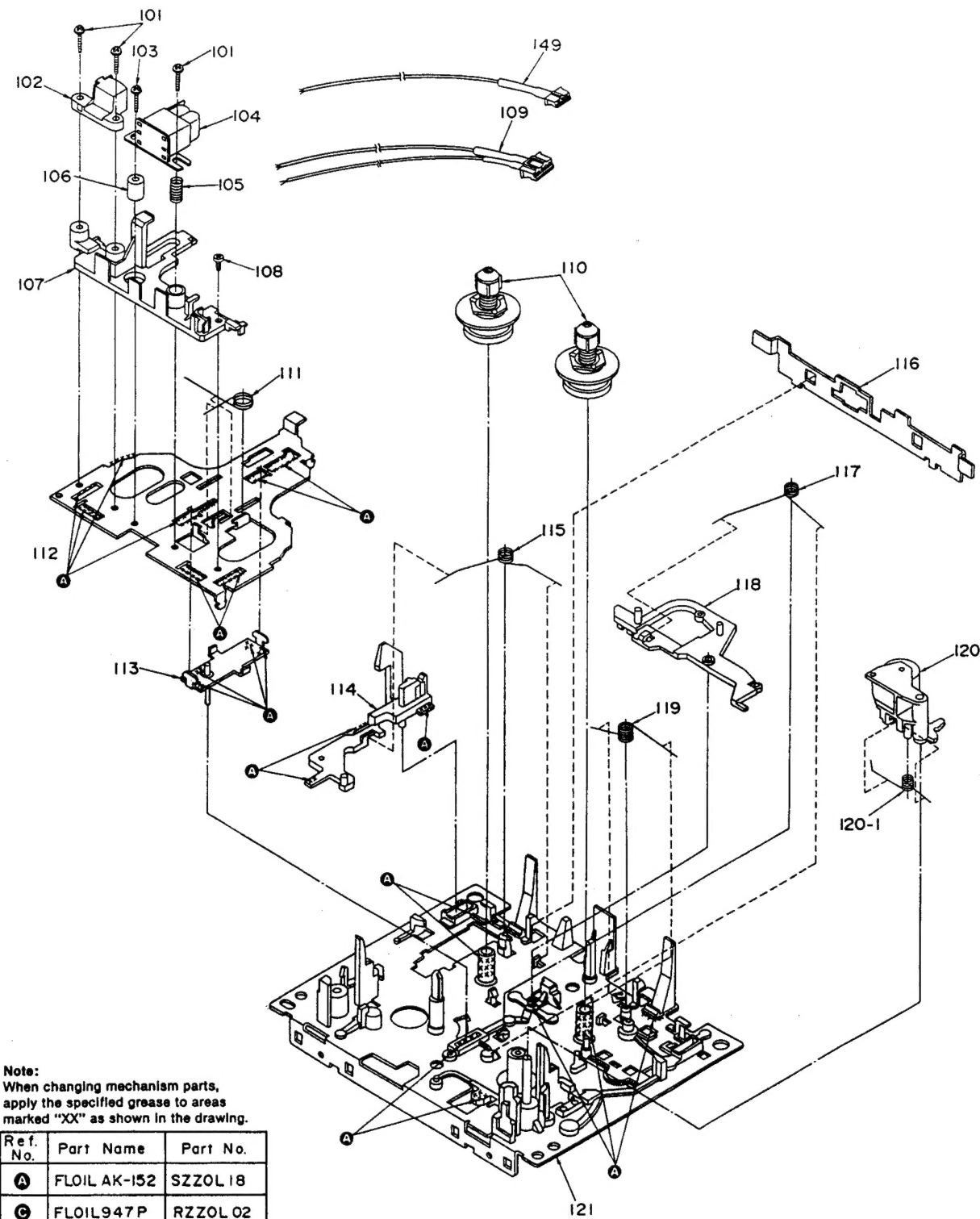
EXPLODED VIEW

• Cabinet parts



• Mechanical parts

(Top view)



Note:
When changing mechanism parts,
apply the specified grease to areas
marked "XX" as shown in the drawing.

Ref. No.	Part Name	Part No.
A	FLOIL AK-152	SZZOL 18
C	FLOIL 947P	RZZOL 02

(Bottom view)

